Anexa 3

DECLARAȚIE DE DEPUNERE A CANDIDATURII PENTRU FUNCȚIA DE MEMBRU AL CONSILIULUI PENTRU STUDII UNIVERSITARE DE DOCTORAT AL INSTITUȚIEI ORGANIZATOARE DE STUDII UNIVERSITARE DE DOCTORAT UNIVERSITATEA "POLITEHNICA" DIN TIMIŞOARA

Subsemnatul, BOLDEA ION
prin prezenta îmi depun candidatura pentru funcția de membru al Consiliului pentru Studii Universitare de Doctorat al instituției organizatoare de studii universitare de doctorat Universitatea „Politehnica" din Timişoara.

Anexez următoarele documente, în conformitate cu art. 20 al Regulamentului instituțional de organizare şi desfăşurare a alegerilor pentru structurile organizatorice şi funcțiile de conducere ale studiilor universitare de doctorat la nivelul instituției organizatoare de studii universitare de doctorat Universitatea "Politehnica" din Timişoara:

- ☒ Curriculum vitae;
- ☒ Autoevaluarea cu privire la îndeplinirea standardelor minimale şi obligatorii pentru acordarea atestatului de abilitare, în vigoare, aprobate prin ordin al ministrului educației, cercetării, tineretului şi sportului, potrivit art. 219 alin. (1) lit. a) din Legea nr. 1/2011;

Data 21.12.2016

Semnătura

Prof. Ion Boldea:IEEE member from 1977, IEEE Fellow(1996), Life Fellow since 2011. He received his M.S. and Ph.D. degrees in 1967, respectively, 1973, from the University Politehnica (Enrollment:15,000, all in Engineering) of Timisoara, Romania where he is a Full Professor. He spent about 5 years in all as Visiting Professor in Electrical Engineering in USA (in Kentucky and Oregon) since 1973 , when he was a Senior Fullbright Scholar for 10 months. He was a Visiting Professor in UK at UMIST and Glasgow University for a few times. Prof. I. Boldea is a full member of Romanian Academy of Technical Sciences" (1999) , a full member of " European Academy of Sciences and Arts" of Salzburg, Austria(2004)and a correspondent member of Romanian Academy; Prof. I. Boldea is a Honorary citizen of his hometown ,Lugoj, in Romania

He received four IEEE-IA paper prizes(two IAS Commitees(EMC and IDC) Conference prizes and two IA-Trans. Prize) in 1996,1997,1998, 2004.

Prof. I. Boldea is a member of IEEE-IAS , IDC and EMC committees since 1992,IEEE-PELS Nominations Committee Member for 2013-2015, Associate Editor of the EPCS Journal(owned by Taylor and Francis) since 1977, Director and founder since 2001 of the Internet -only International "Journal of Electrical Engineering"-www.jee.ro- and General Chairman of International Conference OPTIM-1996,1998,2000,2002,2004,2006,2008, 2010,-www.info-optim.ro- technically sponsored by IEEE-IAS/IES/PES, IEEEXplore and ISI. Prof. I. Boldea has been consulting , lecturing, giving keynote addresses and holding intensive courses in USA, Europe and Asia for the last 25 years .He has been an IEEE-IAS Distinguished Lecturer since 2008 and lectured in this capacity in USA, Denmark, Italy, Brazil.

Prof. I. Boldea published extensively in linear and rotary motion electric machines design and control and MAGLEVS, including more than 200 papers and 18 books in USA and UK; he taught intensive courses repeatedly in the last 20 years in Europe Asia, USA and Brazil and presented keynote addresses at numerous IEEE sponsored international conferences.

He is the recipient of IEEE 2015 Nikola Tesla Award.

RECOMANDARE
pentru avansarea Prof. Dr. ing. Ion Gheorghe BOLDEA
ca Membru Titular al Academiei Române

Experiență profesională

Candidatul are o foarte bogată experiență profesională, câștigată atât în țară cât și în străinătate, dea lungul a aproape 50 de ani de carieră (asistent din anul 1968 și profesor din anul 1991) la Universitatea Politehnica din Timișoara. A obținut titlul de doctor inginer în anul 1973, fiind, la acea vreme, cel mai tânăr doctor inginer din țară. Este conducător de doctorat în specialitatea „Inginerie electrică". Domnia Sa are contribuții științifice valoroase, cu largă vizibilitate și recunoaștere internațională, în domeniul Mașinilor și Acționărilor Electrice Rotative, Liniare și MAGLEV, cu reglaj electronic digital de putere. Acestea au o largă aplicație în industrie, industria de automobile și energetică fiind utilizate în scopul creșterii productivității și reducerea consumurilor energetice. Experiența profesională și-a dezvoltat-o prin stagii de cercetare în universități prestigioase din USA și Europa, mai întâi ca Bursier Fulbright (în perioada 1973-1974 la Universitățile din Kentucky și Oregon, USA) iar ulterior ca cercetător invitat sau profesor invitat la Universitățile din Texas (USA), UMIST din Manchaster și cea din Glasgow (UK), Universitatea din Aalborg (Danemarca), Universitătile din Cassino și din Trieste și la Politehnica din Torino (Italia), Universitatea Hanyang din Seoul (Korea) etc. A fost consultant de specialitate la numeroase firme de profil din Germania, Suedia, Brazilia, Korea și Danemarca. A susținut Plenary sau Invited Lectures la conferințe internaționale de prestigiu (IEEE) și cursuri intensive la universități și intreprinderi din SUA (GE, United Technologies, STC), Brazilia (EMBRACO, Whirlpool), Europa (BOSCH, HILTI, VESTAS etc.) și Coreea de Sud (KERI, L.G., Hyundai). Domnia Sa are o foarte bună experiență acumulată în calitate de director/coordonator al unor proiecte naționale/internaționale finanțate atât de agenții de cercetare naționale (NSF, CNCSIS) cât și de companii industriale.

Publicații

Principalele publicații ale candidatului sunt prezentate în lista de lucrări ale acestuia. Menționăm aici contribuțiile cele mai semnificative:

Autor principal sau coautor a **24 cărți** (două **traduse în rusă și chineză,** respectiv **spaniolă)** publicate în edituri de prestigiu din SUA și UK (**Cambridge University Press, Oxford University Press, Taylor & Francis, CRC Press** etc.) precum și 3 monografii în **Editura Academiei. Mare** parte din cărțile publicate au fost tipărite în mai multe ediții , fiind considerate cărți de referință în domeniul acționărilor electrice și fiind utilizate ca textbooks în numeroase universități din întreaga lume.

A publicat peste **250 de articole** în reviste sau la conferințe din țară și din străinătate, din care **194 publicate în reviste cotate ISI,** mare parte în reviste cu un factor de impact foarte ridicat.

A realizat **25 de patente** (mai multe din ele fiind brevetate în străinătate) cu aplicare în industrie.

Peste 50 dintre articole au fost realizate în colaborare cu cercetători din USA, UK, Danemarca etc.

Principalele contribuții științifice recunoscute de comunitatea științifică internațională

- A condus colectivul UPT-EP Craiova care a realizat primul vehicul urban din Romania cu motoare liniare de inducție și invertor de tensiune cu testare la scara 1 la 1, la Craiova (1981);
- A inventat și realizat (în colectiv) primul MAGLEV-Magnibus-01 cu propulsie și sustentație magnetică integrată cu cale pasivă cu testare pe prototip de 4 tone și cale de 150 m lungime la UPT (1986);

- A generalizat conceptul de „reglaj direct de cuplu"- care azi este tehnologie matură comercial-la toate mașinile sincrone (1988);
- A realizat și publicat (în IEEE) despre motorul sincron reactiv cu tole axiale în rotor cu cel mai mare factor de putere până azi (0.91 la 1,5kW) (1992);
- A introdus o noua clasă de motoare electrice liniare și rotative cu MP în stator; cele cu flux reversibil, preluate în literatura mondială (1996);
- A introdus conceptul BEGA și a publicat în IEEE Trans–motorul-generator cu excitație mixtă pe două axe, pentru automobile cu domeniu larg de viteză la putere constantă și factor de putere unitar (optim) - pentru automobile electrice și hibride (2000);
- A introdus un concept nou în acționări electrice "fluxul activ" (2008) (cu 5 publicații IEEE), deja preluat în literatura IEEE;
- A dezvoltat o mașină electrică foarte competitivă (BLDC-MRM) utilizată în generatoarele eoliene și acționările electrice și hibride de propulsie auto (2011);
- A dezvoltat un generator auxiliar nou de înaltă performanță cu fază unică (2014).

Recunoaștere internațională a prestigiului științific

IEEE- Fellow din 1996, singurul din România și primul din Europa de Est;
Membru din 1992 în Comitetele IEEE-IAS: EMC și IDC;
Membru titular al Academiei de Ştiinţe Tehnice din România din 2002;
Membru al Academiei Europene de Arte și Ştiinţe din Salzburg din 2004;
Redactor Şef Adjunct din 1977 la Revista Internațională „EPCS" Journal, USA;
Membru în Comitetul de IEEE-Fellow din 2010;
IEEE-IAS Distinguished Lecturer (2008-2009);
Doctor Honoris Cauza al Universității din Aalborg, Danemarca (2010);
Membru în Comitetele Științifice a numeroase conferințe internaționale IEEE.
Co-Chairman al Conferinței Internaționale bianuale OPTIM (din anul 1996 până în 2010).
Editor fondator si actual al uneia din primele reviste internationale tehnice **Internet-only** in 2000: www.jee.ro astazi cu 4 numere pe an si cite 40-50 articole pe numar.

Ca recunoaștere a meritelor științifice ale canditatului este și obținerea de către acesta a unor prestigioase premii naționale sau internaționale, astfel:
Premiul "Aurel Vlaicu" al Academiei Române pe anul 1976;
Premiul "TESLA" al IEEE pe anul 2015 care încununează activitatea științifică a candidatului, fiind primul inginer din Europa de Est căruia i se acordă acest prestigios premiu.

Este **cel mai citat inginer din România,** cu **2394 de citări în Web of Science** (din care 1042 după anul 2011) și cu un **Indice Hirsch de 25**. Pe site-ul **Scopus are 3900 de citări** (din care 1630 după anul 2011) și un **Indice Hirsch de 33**. pe **Scholar Google** numărul de citări ale candidatului este de **9279** și **Indicele Hirsch este 50**. Cărțile publicate au peste **6000 de intrări în bibliotecile de pe mapamond** (WorldCat.com). (Toate informațiile scientometrice se referă la data de 21.01. 2016).

Având în vederea întreaga activitate științifică și didactică, contribuțiile deosebite în domeniul cunoașterii și aplicațiilor industriale ale acesteia, recunoscute de întreaga comunitate internațională, ale domnului **Ion Gheorghe BOLDEA,** mare parte din acestea realizate după primirea sa ca membru corespondent al Academiei Române, consider că acesta îndeplinește cu prisosință condițiile pentru a fi avansat ca membru titular. Apreciez că prestigiul și vizibilitatea internațională ale Secției de Stiințe Tehnice precum și ale Academiei Române vor avea de câștigat prin titularizarea candidatului menționat mai sus.

MINISTERUL EDUCAȚIEI, CERCETĂRII, TINERETULUI ȘI SPORTULUI

UNIVERSITATEA TEHNICĂ
DIN CLUJ-NAPOCA

21 Ianuarie 2016

Academician **Dorel BANABIC**
Preşedintele Secţiei de Stiinţe Tehnice a Academiei Române

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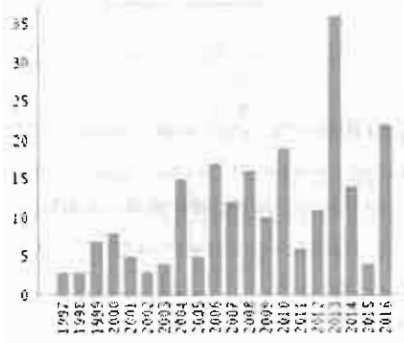

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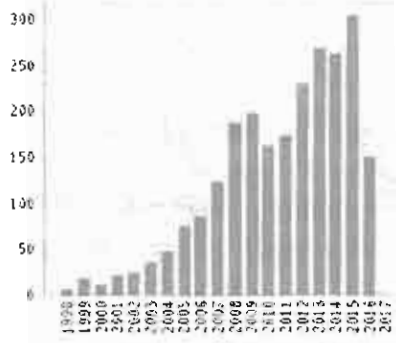

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		2013 ◀	2014	2015	2016	2017 ▶	Total	Average Citations per Year
		269	263	304	151	0	2426	101.08
1	**A modified direct torque control for induction motor sensorless drive** By: Lascu, C; Boldea, I; Blaabjerg, F Conference: 1998 Industry-Applications-Society Annual Meeting Location: ST LOUIS, MISSOURI Date: OCT 12-16, 1998 Sponsors: Ind Applicat Soc IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 36 Issue: 1 Pages: 122-130 Published: JAN-FEB 2000	17	10	17	1	0	233	13.71
2	**High performance current controller for selective harmonic compensation in active power filters** By: Lascu, Cristian; Asiminoaei, Lucian; Boldea, Ion; et al. Conference: 10th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2006) Location: Brasov, ROMANIA Date: MAY 18-19, 2006 IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 22 Issue: 5 Pages: 1826-1835 Published: SEP 2007	22	30	23	16	0	169	16.90
3	**Frequency Response Analysis of Current Controllers for Selective Harmonic Compensation in Active Power Filters** By: Lascu, Cristian; Asiminoaei, Lucian; Boldea, Ion; et al. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 56 Issue: 2 Pages: 337-347 Published: FEB 2009	20	21	23	11	0	143	16.62

4	**The flux-reversal machine: A new brushless doubly-salient permanent-magnet machine** By: Deodhar RP; Andersson S; Boldea I; et al. Conference: 32nd Annual Meeting of the IEEE Industry-Applications-Society Location: NEW ORLEANS, LA Date: OCT 05-09, 1997 Sponsor(s): IEEE Ind Applicat Soc IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 33 Issue: 4 Pages: 925-934 Published: JUL-AUG 1997	6	5	11	7	0	111	5.55
5	**Direct torque control of sensorless induction motor drives: A sliding-mode approach** By: Lascu, C; Boldea, I; Blaabjerg, F Conference: OPTIM 2002 Meeting Location: BRASOV, ROMANIA Date: MAY 16-18, 2002 IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 40 Issue: 2 Pages: 582-590 Published: MAR-APR 2004	15	10	4	3	0	110	8.46
6	**A new matrix converter motor (MCM) for industry applications** By: Klumpner, C; Nielsen, P; Boldea, I; et al. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 49 Issue: 2 Pages: 325-335 Article Number: PII S0278-0046(02)02690-3 Published: APR 2002	8	4	5	1	0	100	7.07
7	**Combined flux observer with signal injection enhancement for wide speed range sensorless direct torque control of IPMSM drives** By: Andreescu, Gheorghe-Daniel; Pitic, Cristian Ilie; Blaabjerg, Frede; et al. IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 23 Issue: 2 Pages: 393-402 Published: JUN 2008	13	9	5	3	0	78	8.67
8	**Linear electric actuators and generators** By: Boldea, I; Nasar, SA IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 14 Issue: 3 Pages: 712-717 Published: SEP 1999	2	6	6	2	0	74	4.11
9	**Active Flux Concept for Motion-Sensorless Unified AC Drives** By: Boldea, Ion; Paicu, Mihaela Codruta; Andreescu, Gheorghe-Daniel IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 23 Issue: 5 Pages: 2612-2618 Published: SEP 2008	16	8	13	4	0	70	7.78
10	**Comparative study of adaptive and inherently sensorless observers for variable-speed induction-motor drives** By: Lascu, C; Boldea, I; Blaabjerg, F IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 53 Issue: 1 Pages: 57-65 Published: FEB 2006	9	12	2	8	0	[illegible]	6.09
11	**A Class of Speed-Sensorless Sliding-Mode Observers for High-Performance Induction Motor Drives** By: Lascu, Cristian; Boldea, Ion; Blaabjerg, Frede IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 56 Issue: 9 Pages: 3394-3403 Published: SEP 2009	10	15	5	6	0	61	7.62
12	**SENSORLESS CONTROL OF THE SYNCHRONOUS RELUCTANCE MOTOR** By: LAGEROUIST, R; BOLDEA, I; MILLER, TJE Conference: 1993 Industry-Applications-Society Annual Meeting Location: TORONTO, CANADA Date: 1993 Sponsor(s): IND APPLICAT SOC IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 30 Issue: 3 Pages: 673-682 Published: MAY-JUN 1994	2	2	2	1	0	39	2.57
13	**New modulation method for matrix converters** By: Klumpner, C; Blaabjerg, F; Boldea, I; et al. Conference: Annual Meeting of the Industry-Applications-Society Location: CHICAGO, IL Date: SEP 30-OCT 05, 2001 Sponsor(s): IndApplicat Soc IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 42 Issue: 3 Pages: 797-806 Published: MAY-JUN 2006	7	4	4	0	0	37	5.18

14	**Wind turbine generator modeling and simulation where rotational speed is the controlled variable** By: Mihet-Popa, L.; Blaabjerg, F.; Boldea, I. Conference: OPTIM 2002 Meeting Location: BRASOV, ROMANIA Date: MAY 16-18, 2002 IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 40 Issue: 1 Pages: 3-10 Published: JAN-FEB 2004	3	5	3	1	0	3[illegible]	4.00
15	**Performance improvement of shunt active power filter with dual parallel topology** By: Asiminoaei, Lucian; Lascu, Cristian; Blaabjerg, Frede; et al. Conference: 37th IEEE Power Electronics Specialist Conference Location: Jeju, SOUTH KOREA Date: JUN 18-22, 2006 IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 22 Issue: 1 Pages: 247-259 Published: JAN 2007	4	4	9	2	0	51	5.10
16	**Variable-structure direct torque control - A class of fast and robust controllers for induction machine drives** By: Lascu, C.; Boldea, I.; Blaabjerg, F. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 51 Issue: 4 Pages: 785-792 Published: AUG 2004	7	1	2	1	0	49	3.77
17	**PM-assisted reluctance synchronous motor/generator (PM-RSM) for mild hybrid vehicles: Electromagnetic design** By: Boldea, I.; Tutelea, L.; Pitic, Cl. Conference: OPTIM 2002 Meeting Location: BRASOV, ROMANIA Date: MAY 16-18, 2002 IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 40 Issue: 2 Pages: 492-498 Published: MAR-APR 2004	9	6	3	4	0	49	3.77
18	**Control Issues in Adjustable-Speed Drives** By: Boldea, Ion IEEE INDUSTRIAL ELECTRONICS MAGAZINE Volume: 2 Issue: 3 Pages: 32-50 Published: SEP 2008	17	5	8	3	0	48	5.33
19	**Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview** By: Boldea, Ion; Tutelea, Lucian N.; Parsa, Leila; et al. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 61 Issue: 10 Pages: 5696-5711 Published: OCT 2014	0	1	32	14	0	47	15.67
20	**"Active Flux" DTFC-SVM Sensorless Control of IPMSM** By: Boldea, Ion; Focu, Mihaela Codruta; Andreescu, Gheorghe-Daniel; et al. IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 24 Issue: 2 Pages: 314-322 Published: JUN 2009	9	10	6	6	0	45	5.63
1	**Very-low-speed variable-structure control of sensorless induction machine drives without signal injection** By: Lascu, C.; Boldea, I.; Blaabjerg, F. Conference: IEEE International Electronic Machines and Drives Conference Location: MADISON, WI Date: JUN 01-04, 2003 Sponsor(s): IEEE Ind Applicat Soc; IEEE Ind Elect Soc; IEEE Power Elect Soc; IEEE Power Engn Soc IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 41 Issue: 2 Pages: 591-598 Published: MAR-APR 2005	4	4	0	0	0	44	3.67
22	**Three-phase flux reversal machine (FRM)** By: Wang, C.; Nasar, SA; Boldea, I. IEE PROCEEDINGS-ELECTRIC POWER APPLICATIONS Volume: 146 Issue: 2 Pages: 139-146 Published: MAR 1999	1	2	1	3	0	36	2.00
23	**Theoretical characterization of flux reversal machine in low-speed servo drives - The pole-PM configuration** By: Boldea, I.; Zhang, JC.; Nasar, SA Conference: International Electric Machines and Drives Conference Location: CAMBRIDGE, MASSACHUSETTS Date: JUN 17-20, 2001 IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 38 Issue: 6 Pages: 1549-1557 Published: NOV-DEC 2002	2	3	4	3	0	35	2.33

24	**DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles** By: Boldea, I; Paicu, CI; Lascu, C; et al. IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 21 Issue: 3 Pages: 711-719 Published: MAY 2006	1	2	1	0	0	32	2.91
25	**PERFORMANCE EVALUATION OF AXIALLY-LAMINATED ANISOTROPIC (ALA) ROTOR RELUCTANCE SYNCHRONOUS MOTORS** By: BOLDEA, I; FU, ZX; NASAR, SA IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 30 Issue: 4 Pages: 977-985 Published: JUL-AUG 1994	2	1	1	1	0	25	1.22
26	**Linear permanent magnet oscillatory machine: Comprehensive modeling for transients with validation by experiments** By: Tutelea, Lucian N.; Kim, Myung-Chin; Topor, Marcel; et al. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 55 Issue: 2 Pages: 492-500 Published: FEB 2008	3	2	2	0	0	24	2.67
27	**Complete parameter identification of large induction machines from no-load acceleration-deceleration tests** By: Babau, Radu; Boldea, Ion; Miller, T. J. E.; et al. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 54 Issue: 4 Pages: 1962-1972 Published: AUG 2007	2	2	5	1	0	24	2.40
28	**Unified analysis of 1-phase AC motors having capacitors in auxiliary windings** By: Boldea, I; Dumitrescu, T; Nasar, SA IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 14 Issue: 3 Pages: 577-582 Published: SEP 1999	0	1	0	0	0	24	1.33
29	**New solutions for a low-cost power electronic building block for matrix converters** By: Klumpner, C; Nielsen, P; Boldea, I; et al. Conference: Annual Meeting of the IEEE-Industry-Applications-Society Location: ROME, ITALY Date: OCT 08-12, 2000 Sponsor(s): IEEE Indust Applicat Soc IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 49 Issue: 2 Pages: 336-344 Article Number: PII S0278-0046(02)02889-7 Published: APR 2002	2	1	0	0	0	23	1.53

Timisoara

22 Septembrie 2016

Comisia Inginerie electrica - Verificare indeplinire conditii ninimale										
Nr. Crt.	Domeniu Activitate	Tipul activitate	Categorii Restrictii	Subcategorii	Indicatori Kpi	Nr. Realizat	Nr. Minim necesar	Punctaj realizat	Punctaj minim	Factor impact
0	1	2	3	4	5	6	7	8	9	10
1	Activitate didactica si profesionala (A1)	1.1 Carti si capitole in carti de specialitate	Carti cu ISBN (didactice/ monografii/ capitole) ca autor	1.1.1.1 Internationale	nrPagini/(2*nrAutori)	13	4	**2148.70**	**80**	
				1.1.1..2 Nationale	nrPagini/(5*nrAutori)	4				
			Carti/capitole ca editor/ coordonator	1.1.2.1 Intenationale	nr. pagini/(3*nr. autori)					
				1.1.2.1 Nationale	nr. pagini/(7*nr. autori)					
		1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic		nr. pagini/(10*nr. autori)	3	2			
			1.2.2 Indrumatoare de laborator	Autor (total)	nr. pagini/(20*nr. autori)	1	2			
				Prim autor		1	1			
		1.3 Coordonare programe de studii	Punctaj unic pt. fiecare		10					
2	Activitate de cercetare (A2)	2.1 Articole in extenso in reviste cotate si in volume proceedings indexate ISI			(25+20*factor impact)/nr.de autori	46	11	**696.318**	**300**	**5**
		2.2 Articole in reviste si volume indexate in alte baze de date internationale			20/nr.de autori	31	16			
		2.3 Granturi/ proiecte castigate prin competitie	2.4.1 Director/Responsabil	2.4.1.1 internationale	20*ani de desfasurare	1	2			
				2.4.1.2 nationale	10*ani de desfasurare	9				
			2.4.2 membru in echipa	2.4.2.1 internationale	4*ani de desfasurare					
				2.4.2.2 nationale	2*ani de desfasurare	2				
		2.4 Contracte de cercetare/ consultanta (valoare de minim 2000 Euro)	2.5.1 Responsabil		5*ani de desfasurare					
			2.5.2 Membru in echipa		2*ani de desfasurare					
3		3.1 Citari in reviste si volumele conferintelor ISI si BDI		3.1.1 ISI	5/nr autori ai art.citat	109	40	**1692.17**	**60**	
				3.1.2 BDI	3/nr autori ai art.citat	618				
		3.2. Prezentari invitate in plenul unor manifestari stiintifice si profesor invitat (exclusiv POS,		3.2.1 internationale	20	5				
				3.2.2 nationale	5					
		3.3 Membru in colectivele de redactie sau comitete stiintifice al revistelor simanifestarilor	Punctaj unic pentru	3.2.1 ISI	10	1				

Recunoasterea si impactul activitatii (A3)	stiintifice, Organizator manifestari stiintifice,Recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare, revista, manifestare stiintifica si recenzie)	fiecare activitate	3.3.2 BDI	6	1				
			3.3.3 nationale si internationale neindexate	3	0				
	3.4 Experienta management		3.4.1 Conducere	5* nr.ani					
			3.4.2 Membru organisme conducere	2*nr. ani					
	3.5 Referent comisii doctorat		3.5.1 internationale	10	3				
			3.5.2 nationale	5	25				
	3.6 Premii		Academia Romana	30	1				
			ASAS, AOSR, academii de ramura si CNCS	15					
			premii internationale	10	5				
			premii nationale in domeniu	5					
	3.7 Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartenenta la organizatii din domeniul educatiei si cercetarii	3.7.1 Academia romana		100	1				
		3.7.2 ASAS,AOSR, si academii de ramura		30	1				
		3.7.2 Conducere asociatii profesionale	internationale	30					
			nationale	10					
		3.7.4 Asociatii profesionale	internationale	5	1				
			nationale	2					
		Consilii si organizatii in domeniul educatiei si	Conducere	15					
			Membru	10	1				
				Total Punctaj			**4537.19**	**440**	

Sinteza indeplinire conditii minimale pentru ocupare post profesor si abilitare

Conditii minimale (A1, A2, A3)			
Nr. Crt.	Domeniul de activitate	Conditii Profesor / Abilitare	Realizat
1	Activitatea didactică / profesională (A1)	Minim 80 puncte	**2148.70**
2	Activitatea de cercetare (A2)	Minim 300	**696.32**
3	Recunoaşterea impactului activităţii (A3)	Minim 60	**1692.17**
	TOTAL	Minim 440 puncte	**4537.19**

9.01. 2017

Boldea Ion

Lista de lucrări organizată pe structura tipului de activităţi prevăzute în Ordinul ministrului educaţiei, cercetării, tineretului şi sportului nr. 6560 din 20 decembrie 2012

Nr. Crt	Autori	Titlu	Editura	ISBN/link	An aparitie	Nr Pag	Punctaj
Carti si capitole de carte in edituri recunoscute			**Internationa**				
A 1.1.1.1		**Carti/monografii/capitole ca autor**	**Internationala**				
1	I.Boldea	Synchronous Generators - second edition	CRC Press Taylor & Francis Group, Boca Raton	978-1-4987-2356-5	2016	477	238.5
2	I.Boldea	Variable speed Generators - second edition	CRC Press Taylor & Francis Group, Boca Raton	978-1-4987-2357-2	2016	580	290
3	I.Boldea, S.A. Nasar	Electric Drives - third eddition	CRC Press Taylor & Francis Group, Boca Raton	978-1498748209	2016	650	162.5
4	I.Boldea	Linear Electric Machines, Drives, and MAGLEVs Handbook	CRC Press Taylor & Francis Group, Boca Raton	**13:** 978-1439845141	2013	660	330
5	I.Boldea, S.A. Nasar	The Induction Machine Handbook (Electric Power Engineering Series)	CRC Press Taylor & Francis Group, Boca Raton	978-0849300042	2001	950	237.5
6	I. Boldea, L. Tutelea	Electric Machines - steady State, Transients and design with Matlab	CRC Press Taylor & Francis Group, London, UK	978-1-4200-5572-6	2010	775	193.8
7	I.Boldea, S.A. Nasar	Vector Control of AC DrivesA	CRC Press	978-0849344084	1992	256	64
8	I.Boldea	Reluctance Synchronous Machines and Drives (Monographs in Electrical and Electronic Engineering)	Clarendon Press, Oxford	978-0199593911	1996	240	60
9	I.Boldea, S.A. Nasar	Linear Electric Actuators and Generators	Cambridge University Press	978-0521480178	1997	248	62

10	I.Boldea, S.A. Nasar	Linear Motion Electromagnetic Systems	John Wiley & Sons	978-0471874515	1985	482	120.5
11	I.Boldea, S.A. Nasar	Electric Machine Dynamics	Macmillan Pub Co	978-0070061	1896	259	64.75
12	I.Boldea, S.A. Nasar	Linear Motion Electromagnetic Devices	Taylor & Francis (November	978-9056997	2001	284	71
13	I.Boldea, S.A. Nasar	Electric Machines Steady-State Operation: Steady State Operation	Hemisphere publishing corporastion, A member of Taylor &Francis Group	978-0891169918	1990	242	60.5
Total A1.1.1.1							**1955**
A 1.1.1.2		**Carti/monografii/capitole ca autor**	**National**				
1	I.Boldea	Transformatoare si nasini electrice	Editura Politehnica timisoara	978-973-625-943-2	2014	487	97.4
2	I.Boldea	Parametrii maşinilor electrice Identificare, estimare şi validare	Editura Academiei Rimane	973-27-0145-5	1991	183	18.3
3	I.Boldea, Gh. Atanasiu	Analiza unitara a masiniilor electrice	Editura Academiei RSR		1983	216	21.6
4	I.Boldea	Vehicule pe pernă magnetică : Propulsie-levitaţie-ghidaj	Editura Academiei RSR		1981	282	56.4
Total A1.1.1.2							**193.7**
A1.2.1		**Suport de curs -electronic**					
Total A1.2.1							**0**
A1.2.2		**Indrumatoare de laborator/Aplicatii**					
1	I.Boldea, Gh. Atanasiuu, M. Babescu, Gh. Bogoevici, D. Irhasiu, M. Tanase	Încercările maşinilor electrice : Manual de laborator [electrotehnică]	Institutul Politehnic "Traian Vuia" Timişoara, Facultatea de Electrotehnică		1979	207	1.725
Total A1.2.2							
Total A1							**2149**

Nr. Crt	Autori	Titlul lucrării	Revista	Anul	(Nr.)/ISSN/ISBN	Pag.	Factor de impact	Punctaj
Articole în reviste cotate ISI								
1	I. Boldea, L. N.Tutelea, L. Parsa, D. Dorrell	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview	IEEE Transactions on Industrial Electronis, Vol. 61, No. 10	2014	0278-0046; 1557-9948	5696-5711	5.165	32.075
2	M. C. Ancuti, L. Tutelea, G.D. Andreescu, F. Blaabjerg, C. Lascu, I.Boldea	Practical Wide-speed-range Sensorless Control System for Permanent Magnet Reluctance Synchronous Motor Drives via Active Flux Model	Electric Power Components and systems, Vol. 42, No.1	2014	1532-5008; 1532-5016	91-102	0.62	6.2333
3	F.J.H. Kalluf, L.N. Tutelea, I. Boldea, A. Espindola	2/4-POLE Split-Phase Capacitor Motor for Small Compressors: A Comprehensive Motor Characterization	IEEE Transactions on Industry Applications, Vol. 50, No.1	2014	0093-9994; 1939-9367	356-363	1.672	14.61
4	S.C. Agarlita, L.N. Tutelea, I.Boldea	Modelling and control of a springless resonant linear permanent magnet oscillomotor	IET Electric Power Applications, Vol 7, No 2	2013	1751-8660	150-158	1.562	18.747
5	L.N. Tutelea, M.C. Kim, M. Topor, J. Lee, I. Boldea	Linear permanent magnet oscillatory machine: Comprehensive modeling for transients with validation by experiments	IEEE Transactions on Industrial Electronis, Vol. 55, No. 2	2008	0278-0046	492-500	5.165	25.66
6	I. Boldea, C.I. Pitic, C. Lascu, G.D. Andreescu, L. Tutelea, F. Blaabjerg, P. Sandholdt	DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles	IEEE Transactions on Powers Electronics, Vol 21, No. 3	2006	0885-8993	711-719	4.08	15.229
7	L. Tutelea, M.C. Kim, Y.D. Chun, T.H. Kim, S.B. Lim, J.S. Ahn, J. Lee, I. Boldea	A set of experiments to more fully characterize linear PM oscillatory machines	IEEE Transactions on Magnetics, Vol. 41, No 10	2005	0018-9464	4009-4011	1.422	6.68
8	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, A.E. Ritchie	BEGA-A biaxial excitation generator for automobiles: Comprehensive characterization and test results	IEEE Transactions on Industry Applications, Vol. 41, No 4	2005	0093-9994	935-944	1.672	11.688
9	I.Boldea, L. Tutelea, C.I. Pitic	PM-assisted reluctance synchronous motor/generator (PM-RSM) for mild hybrid vehicles: Electromagnetic design	IEEE Transactions on Industry Applications, Vol. 40, No 2	2004	0093-9994	492-498	1.672	19.48

Total reviste cotate ISI								**150.4**
Articole în volumele unor manifestări științifice indexate ISI Proceedings								
1	L N Tutelea, S I Deaconu, I Boldea, G N Popa	Dual rotor single- stator axial air gap PMSM motor/generator drive for high torque vehicles	International Conference on Applied Sínces (ICAS2013) Book Series: IOP Conference Series-Materials Science and Engineering Vol: 57 Article No. 012009	2014	1757-8981	1-7	ISI , ACM	6.25
2	L. Tutelea, A. Popa Moldovan; I. Boldea	50/100 kW, 1350–7000 rpm (600 Nm peak torque, 40 kg) PM assisted Reluctance synchronous machine: Optimal design with FEM validation and vector control	Optimization of Electrical and Electronic Equipment (OPTIM), 2014 International Conference on	2014	_10.1109/OPTIM.2014.6850884	276-283	ISI IEEE_Xplore	8.3333
3	L.N. Tutelea, I. Boldea, S. I. Deaconu	Parameter optimal identification of dual three phase stator winding induction machine	Optimization of Electrical and Electronic Equipment (OPTIM), 2014 International Conference on	2014	10.1109/OPTIM.2014.6851016	231-238	ISI IEEE_Xplore	8.3333
4	A.S. Isfanuti, L.N. Tutelea, F.J.H. Kalluf, I. Boldea	A novel design of stator Ferrite PM single phase doubly salient small motor: FEM characterization and controlled dynamics	Optimization of Electrical and Electronic Equipment (OPTIM), 2014 International Conference on	2014	10.1109/OPTIM.2014.6850893	284-290	ISI IEEE_Xplore	6.25
5	S. Agarlita, D. Ursu, L. Tutelea, I. Boldea, B. Fahimi	BLDC multiphase reluctance machines: A revival attempt with 2D FEM investigation and standstill tests	Energy Conversion Congress and Exposition (ECCE), 2013 IEEE	2013	10.1109/ECCE.2013.6646933	1850-1857	IEEE_Xplore	5
6	L.N. Tutelea, S.I. Deaconu, I. Boldea, N. Budisan	Design, Control and 2D-FEM Validation for an Double Stator Winding Induction Generator	39th Annual Conference of the IEEE Industrial-Electronics-Society (IECON)	2013	1553-572X / 978-1-4799-0224-8	2732-2737	ISI	6.25
7	A.S. Isfanuti, M. Baba, L. Tutelea, A. Moldovan, I. Boldea	Surface NdFeB versus Ferrite IPM motor drive for low power (100W to 2000W) applications: FEM embedded optimal design with full step torque response validation in sensorless vector control	39th Annual Conference of the IEEE Industrial-Electronics-Society (IECON)	2013	1553-572X / 978-1-4799-0224-8	3177-3182	ISI	5
8	F. Kalluf, A. Espindola, L. Tutelea, I. Boldea	2/4 POLES split phase capacitor motor for small compressors: a comprehensive characterization	IEEE Emergy Conversion Congress and Exposition (ECCE)	2012	978-1-4673-0801-4	158-165	ISI	6.25

9	I. Boldea, L.N. Tutelea, D. Ursu	BLDC Multiphase Reluctance Machines for Wide Range Applications: a revival attempt	15th International Power Electronics and Motion Control Conference (EPE/PEMC)	2012	978-1-4673-1972-0	LS1 b.1-1 - LS1 b.1-6	ISI	8.3333
10	L.N. Tutelea, I. Boldea, S.I. Deaconu	The Single Stator Dual Rotor PMSM for HEV: Two Windings and 4 Leg Inverter Control	15th International Power Electronics and Motion Control Conference (EPE/PEMC)	2012	978-1-4673-1972-0	DS3 a.1-1-DS3 a.1-6	ISI	8.3333
11	I. Boldea, L.N. Tutelea, S.C. Agarlita, C. Pompermaier, I.H. Setter	25 W linear PM oscillo-motor (PM-LOM): general and optimal design, with FEM validation and controlled dynamics	XXth Intenational Conference on Electrical Machines (ICEM)	2012	978-1-4673-0142-8	2726-2732	ISI	5
12	L.N. Tutelea, S.I. Deaconu, I. Boldea, F. Marignetti, G.N. Popa	Design and Control of a Single Stator Dual PM Rotors Axial Synchronous Machine for Hybrid Electric Vehicles	Proc. of the the 2011-14th Europen Conference on Power Electronics and Applications (EPE 2011)	2011	978-90-75815-15-3	1-10	ISI	5
13	L. Tutelea, I. Boldea	Surface Permanent Magnet Synchronous Motor Optimization Design: Hooke Jeeves Method Versus Genetic Algorithms	IEEE International Symposium on Industrial Electronics (ISIE 2010)	2010	978-1-4244-6391-6	1504-1509	ISI	12.5
14	S.C. Agarlita, M. Fatu, L.N. Tutelea, F. Blaabjerg, I. Boldea	I-f Starting and Active Flux Based Sensorless Vector Control of Reluctance Synchronous Motors, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	337-342	ISI	5
15	I.Boldea, M.Topor, F. Marignetti, S.I. Deaconu, L.N. Tutelea	A Novel, Single Stator Dual PM Rotor, Synchronous Machine: topology, circuit model, controlled dynamics simulation and 3D FEM Analysis of Torque Production	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	343-351	ISI	5

16	V. Gradinaru, L. Tutelea, I. Boldea	BLDC-SPM Motor Drive with DC-DC Converter in the DC Link: Hall Sensor versus Sensorless Speed Control	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	422-429	ISI IEEE_Xplore INSPEC Compendex	8.3333
17	I. Boldea, A. Moldovan, V. Coroban Schramel, G.D. Andreescu, L. Tutelea	A Class of Fast Dynamics V/f Sensorless AC General Drives with PM-RSM as a Case Study	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	453-459	ISI IEEE_Xplore INSPEC Compendex	5
18	M.C.Paicu, L. Tutelea, I. Boldea, G.D. Andreescu, R. Ancuti	PM-RSM Sensorless Vector Control: Zero q-Axis Flux versus Approximate Maximum Torque per Current, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	460-468	ISI IEEE_Xplore INSPEC Compendex	5
19	L. Tutelea, I. Boldea	Induction Motor Electromagnetic Design Optimization: Hooke Jeeves Method Versus Genetic Algorithms	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	485-492	ISI IEEE_Xplore INSPEC Compendex	12.5
20	S.C. Agarlita, I. Boldea, F. Marignetti, L.N. Tutelea	Position Sensor less Control of a Linear Interior Permanent Magnet Oscillatory Machine, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	689-695	ISI IEEE_Xplore INSPEC Compendex	6.25
21	S.C. Agarlita, I. Boldea, F. Marignetti, L. Tutelea	Linear Permanent-Magnet Valve Actuator - The Dynamic Model: Digital Simulations, Open-Loop U/f and I/f Operation and Position Estimation Performance, with Experiments	8th International Symposium on Advanced Electromechanical motion systems (ELECTROMOTION 2009)	2009	978-1-4244-5150-0	320-324	ISI, Inspec	6.25
22	M.C. Paicu, L. Tutelea, G.D. Andreescu, F. Blaabjerg, C. Lascu, I. Boldea	Wide Speed Range Sensorless Control of PM-RSM Via "Active Flux Model"	IEEE Emergy Conversion Congress and Exposition (ECCE 2009)	2009	978-1-4244-2892-2	3695-3702	ISI	4.1667
23	A. Stirban, L. Tutelea, D. Iles-Klumpner, I. Boldea	FEM analysis of concentrated coils nonuniform slot (6+6/8) IPMSM fed with trapezoidal current	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	45-52	ISI IEEE_Xplore INSPEC Compendex	6.25

24	L.I. Iepture, L. Tutelea, I. Boldea	FEM analysis and control of a tapered airgap single phase PMSM	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	241-248	ISI IEEE_Xplore INSPEC Compendex	8.3333
25	I. Boldea, S.C. Agarlita, F. Marignetti, L. Tutelea	Electromagnetic, thermal and mechanical design of a linear PM valve actuator laboratory model	Proc. of 11th OPTIM 2008, Vol. II, Brasov, Romania	2008	978-1-4244-1544-1	259-264	ISI IEEE_Xplore INSPEC Compendex	6.25
26	V. Grădinaru, L. Tutelea, I. Boldea	25 kW, 15 krpm, 6/4 PMSM: Optimal Design	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	249-256	ISI IEEE_Xplore INSPEC Compendex	8.3333
27	M. Fatu, L. Tutelea, I. Boldea, R .Teodorescu	Novel motion sensorless control of stand alone permanent magnet synchronous generator (PMSG): harmonies and negative sequence voltage compensation under nonlinear load	European Conference on Power Electronics and Applications	2007	978-90-75815-11-5	4421-4430	ISI	6.25
28	M Fatu, L. Tutelea, R. Teodorescu, F. Blaabjerg, I. Boldea	Motion sensorless bidirectional PWM converter control with seamless switching from power grid to stand alone and back	IEEE Power Electronics Specialists Conference, VOLS 1-6	2007	0275-9306 / 978-1-4244-0654-8	1239-1244	ISI	5
29	N. Muntean, L. Tutelea, I. Boldea	A modified carrier-based PWM modulation technique in Z-source inverters	Proc. of International AEGEAN Conference on Electrical Machines and Power Electronics & ELECTROMOTION	2007	978-1-4244-0890-0	174-180	ISI	8.3333
30	L. Tutelea, I. Boldea	Optimal design of residential brushless d.c. permanent magnet motors with FEM validation	Proc. of International AEGEAN Conference on Electrical Machines and Power Electronics & ELECTROMOTION	2007	978-1-4244-0890-0	435-439	ISI	12.5
31	I. Serban, GD Andreescu, L. Tutelea, F. Blaabjerg, C. Lascu, I. Boldea	New state observers and sensorless control of wound rotor induction generator (WRIG) at power grid with experimental characterization	32nd Annual Conference on IEEE Industrial Electronics (IECON 2006), Paris	2006	1553-572X / 978-1-4244-0135-2		ISI	4.1667

32	G. Iliescu, L. Tutelea, I. Boldea	Performance of a single-phase self-starting PM brushless motor fed by a chopper-controlled current-source thyristor inverter	Proc. of 10th OPTIM 2006, Vol. II, Brasov, Romania	2006	978-973-635-704-6	85-90	ISI	8.3333
33	M. Fatu, I. Boldea, C. Lascu, L. Tutelea, G.D. Andreescu	Motion sensorless variable speed PMSG control at power grid	Proc. of 10th OPTIM 2006, Vol. III, Brasov, Romania	2006	978-973-635-705-3	9--16	ISI	5
34	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, E. Ritchie	BEGA - A biaxial excitation generator for automobiles: Comprehensive characterization and test results	Record of the 2004 IEEE Industry Applications Conference (IAS), VOLS 1-4	2004	0197-2618 / 0-7803-8486-5	1682-1690	ISI	5
35	I. Boldea, T. Marcel, J. Lee, L. Tutelea	Linear flux reversal PM oscillo-machine with effective flux concentration	Proc. of 9th OPTIM 2004, Vol. II, Brasov, Romania	2004	978-973-635-287-4	59-64	ISI	6.25
36	C.I. Pitic, L. Tutelea, I. Boldea, F. Blaabjerg	The PM - assisted reluctance synchronous Starter/Generator (PM - RSM): Generator experimental characterization	Proc. of 9th OPTIM 2004, Vol. II, Brasov, Romania	2004	978-973-635-287-4	275-282	ISI	6.25
37	L Tutelea, E. Ritchie, I. Boldea	Permanent magnet in-wheel synchronous motor for electric vehicle	Proc. of 5th ICEMS'2001: Vols I-II	2001	7-5062-5115-9	831-834	ISI	8.3333
	Total Conferinte ISI							218.75
Brevete de inventie								
1	I. Boldea, S. Deaconu, F. Marignetti, L. Tutelea	Brushless electrical actuator with two independent rotors for hybrid electrical propulsion	Patent Number: IT1409332-B	2014	2014-Q06615 [65]		**ISI**	6.25
2	I. Boldea L. Tutelea, B. Sander, A. Binder	Linear motor for e.g. drilling hammer, has rotor comprising two magnets and movably supported between two cores and two air gaps in filled manner, where two air gaps comprise plane that comprises rotor movement axis	Patent Number: DE102011077241-A1	2012	2012-R13188 [01]	1-20	ISI	6.25
3	S. C. Agarlita, I.G. Boldea, L.N. Tutelea	Electromagnetic device for actuation of valves of heat engine comprises pre-polarized electromagnet, fixed magnetic cores, internal core and external core	Patent Number: RO125407-A2	2010	2010-K26930 [54]		ISI	8.3333
Total Brevete de inventie								**20.833**
Total A.2.1.								**389.98**

A.2.2. Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)								
Nr. Crt	Autori	Titlul lucrării	Revista/Conferinta	Anul	(Nr.)/ISSN/ DOI	Pag.	BDI	Punctaj
1	L.N. Tutelea, I. Boldea, N. Muntean, S.I. Deaconu	Modeling and performance of novel scheme dual winding cage rotor variable speed induction generator with DC link power delivery	Energy Conversion Congress and Exposition (ECCE), 2014 IEEE	2014	10.1109/ECCE.2014.6953404	271 - 278	IEEE_Xplore	5
2	L.N. Tutelea, S.I. Deaconu,N. Budisan, I. Boldea,	Double stator winding induction generator for wind and hydro applications: 2D-FEM analysis and optimal design	Power Electronics and Applications (EPE), 2013 15th European Conference on	2013	10.1109/EPE.2013.6634443	1-10	IEEE_Xplore	5
3	D. Ursu, L. Tutelea, I. Boldea	Proposal with 2D FEM analysis of a six phase, 12 poles, 3kW, 200 rpm BLDC multiphase reluctance machine wind generator	Power Electronics and Applications (EPE), 2013 15th European Conference on	2013	10.1109/EPE.2013.6631885	1-9	IEEE_Xplore	6.6667
4	A. Isfanuti, L. Tutelea, S. Agarlita, I. Boldea	NdFeB Versus Ferite IPM Motor For Automotive A.C. Comprssor Electric Driving: Modeling and FEM-Embeded Optimal Design	Journal of electrical engineering vol. 13 no. 3 / 2013	2013	1582-4594	263-270	SCOPUS	5
5	L.N. Tutelea, I. Boldea, S.I. Deaconu	Optimal design of dual rotor single stator PMSM drive for automobiles	Electric Vehicle Conference (IEVC), 2012 IEEE International	2012	10.1109/IEVC.2012.6183224	1-8	IEEE_Xplore	6.6667
6	I. Boldea, L.N.Tutelea, S.I. Deaconu, F. Marignetti	Dual rotor single-stator axial air gap PMSM motor/generator drive for HEVs: A review of comprehensive modeling and performance characterization	Electrical Systems for Aircraft, Railway and Ship Propulsion (ESARS), 2012	2012	10.1109/ESARS.2012.6387498	1-8	IEEE_Xplore	5
7	L.N. Tutelea, S.I. Deaconu, I. Boldea	Design and FEM validation for an axial Single Stator Dual Rotor PMSM	IECON 2012-38th Annual Conference on IEEE Industrial Electronics Society	2012	10.1109/IECON.2012.6389430	2929 - 2935	IEEE_Xplore	6.6667

8	I. Boldea, L. Tutelea, M. Topor	Theoretical characterization of three phase flux reversal machine with rotor-PM flux concentration	Optimization of Electrical and Electronic Equipment (OPTIM), 2012 13th International Conference on	2012	10.1109/OPTIM.2012.6231876	472 - 476	IEEE_Xplore	6.6667
9	Tutelea, L., Ursu, D., Boldea, I., Agarlita, S.	IPM claw-pole alternator system for more vehicle braking energy recuperation	Journal of electrical engineering vol. 12 no. 3/ 2012	2012	15824594	211-220	SCOPUS	5
10	A. Munteanu, I. Boldea, L. Tutelea	Novel hybrid design methodology for a surface permanent magnet synchronous motor	Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), 2012 International Symposium on	2012	10.1109/SPEEDAM.2012.6264452	603 - 608	IEEE_Xplore	6.6667
11	V. Gradinaru, L. Tutelea, I. Boldea	Hybrid analytical/FEM optimization design of SPMSM for refrigerator compressor loads	Electrical Machines and Power Electronics and 2011 Electromotion Joint Conference (ACEMP), 2011 International Aegean Conference on	2011	10.1109/ACEMP.2011.6490677	657 - 662	IEEE_Xplore	6.6667
12	L. Strete, L. Tutelea, I. Boldea, C. Martis, I. Viorel	Optimal design of a rotating transverse flux motor (TFM) with permanent magnets in rotor	Electrical Machines (ICEM), 2010 XIX International Conference on, Roma	2010	978-1-4244-4174-7	1-6	IEEE_Xplore	4
13								
14	M.C. Paicu, L. Tutelea, G. D. Andreescu, I. Boldea	Active flux sensorless vector control of IPMSM for wide speed range,	Journal of electrical engineering vol. 8 no. 4/ 2008	2008	1582-4594	1-9	SCOPUS, INSPEC	5
15	I. Boldea, S. Agarlita, L. Tutelra, F. Marignetti	Novel linear PM valve actuator: FE design and dynamic model	Record of LDIA 2007, Lile,France	2007	978-2-915913-21-7	180 .pdf	Inspec	5
16	I.Boldea, L. Tutelea, C.Pitic	The PM Assisted Reluctance Synchronous Starter/Generator	Journal of electrical engineering, vol 5. nr 1.	2005	1582-4594		INSPEC	6.6667
17	L. Tutelea, M.C. Kim, T.H. Kim, J. Lee, I. Boldea	A set of experiments and test rig to fully characterize linear PM oscillatory machines	Magnetics Conference, 2005. INTERMAG Asia 2005. Digests of the IEEE International	2005	10.1109/INTMAG.2005.1464141	1423 - 1424	IEEE_Xplore	4
18	C.I. Pitic, L. Tutelea, I. Boldea, F. Blaabjerg	The PM-assisted reluctance synchronous starter/generator (PM-RSM): Generator experimental characterization	The 9 th International Conference on Optimization of Electrical and Electronic Equipments	2004	973-635-288-9	275-282	Google Scholar	5

19	I. Boldea, E.A. Ritchie, F. Blaabjerg, S. Scridon, L. Tutelea	Characterization of biaxial excitation generator for automobiles	International Conference on Optimization of Electrical and Electronic Equipments, 2002, vol II. OPTIM May 20-21, 2002	2002	973-635-004-5	371-376	Google Scholar	4
20	I. Boldea, I. Serban L. Tutelea	Variable speed electric generators and their control: an emerging technology	Journal of Electrical Engineering vol 2, no 1	2002	1582-4594	40-47	INSPEC	6.6667
21	L.Tutelea, E.A. Ritchie, I. Boldea	Comparative Performance of Induction and Synchronous Permanent Magnet Machine for Electric Vehicle Drives	Proc. of 8th International Conference on OPTIM 2002, vol II, Brasov May 20-21 2002 vol. 2,	2002	973-635-004-5	401-406	Google Scholar	6.6667
22	I. Boldea, L. Tutelea, C.I. Pitic	PM – assisted Reluctance Synchronous Motor / Generator	Proc. of 8th International Conference on OPTIM 2002, vol II, Brasov May 20-21 2002 vol. 2,	2002	973-635-004-5	383-388	INSPEC	6.6667
23	I. Boldea, S. Scridon, L.Tutelea	(PM - RSM) for Mild Hybrid Vehicles	Journal of electrical engineering vol. 1 no. 1/ 2001, paper 8,	2001	1582-4594	50-57	INSPEC	6.6667
24	L.N. Tutelea, E.A. Ritchie, I. Boldea	Induction machine design with and without mechanical transmission for electrical vehicle drives	4th ELECTROMOTION'01, Bologna	2001		275-280	Google Scholar	6.6667
25	L.N. Tutelea, E.A. Ritchie	Modeling and Simulation of Four Wheel Drive System for Electric Vehicle using Induction Machine	European Conference on Power Electronics and Applications, August 2001, Graz, Austria	2001	CD-ROM 9789075815061	1-10	Google Scholar	10
26	I. Boldea, L. Tutelea, C. Klumpner	Artificial loading of induction machines: A review	Workshop on Electrical Machine's Parameters, Technical University of Cluj-Napoca, 26th of May, 2001	2001		9-14	Google Scholar	6.6667
27	I. Boldea, S. Scridon, L. Tutelea, C. Lascu, N. Muntean	The Flux Reversal Machine (FRM) as an Automotive Alternator with 42/14V D.C. Dual Output	Proc. of 7th OPTIM 2000, Brasov, Romania	2000	973-9474-62-4	337-344	INSPEC	
28	Boldea, I; S.Scridon, Tutelea, L;	BEGA-A biaxial excitation generator for automobiles	Proc. of 7th OPTIM 2000, Brasov, Romania	2000	973-9474-62-4	345-352	INSPEC Google Scholar	6.6667
29	E.A. Ritchie, L. Tutelea, Lucian, I. Boldea	Design of Induction Machine with External Rotor for Flywheel	Proceedings of NORPIE, 13-16 June 2000, Aalborg, Denmark	2000	87-89179-29-3	251-256	Google Scholar	5
30	L. Tutelea, I. Boldea	Polygonal Flux modulation (PFM) in ac drives	Proc. of 6th OPTIM'98, Brasov, Romania	1998	10.1109/OPTIM.1998.707963	389 - 394	IEEE_Xplore	10

31	L. Tutelea, I. Boldea, E.A. Ritchie, P. Sandholdt, F. Blaabjerg	Thermal testing for inverter-fed induction machines using mixed frequency method	Proceedings of ICEM'98 Istanbul,Turkey	1998		248-253	Google Scholar	4
Total A.2.2.								**174.33**

A2.4 Granturi/Proiecte castigate prin competitie					
Nr.crt.	Programul/Beneficiarul	Titlu grant	Nr Contract	Perioada	Punctaj
A2.4.1.1 Director/Responsabil - internationale					
1	FP7	Energy efficient vehicles for road transport (EE-VERT)	218598	2009-2012	80
Total A2.4.1.1					**80**
A2.4.1.2 Director/Responsabil - nationale					
1	CEEX	TEHNOLOGII NOI DE ACTUATOARE ELECTRICE PENTRU AUTOMOBILE	X2C33	2006-2008	12
2	CNCSIS	Noi masini si actionari electrice de turatie variabila foarte joasa cu densitate de cuplu, randament si factor de putere ridicate	40535/2003 cod 512	2003	4
3	ANSTI	Generatoare electrice la turatie variabila pt. Sisteme de putere distribuite flexibile	7069 GR 2001 tema 812	2001	4
4	CNCSIS	Sisteme electric performant de putere pt. Vehicole hibride	34977/2001 tema 7 cod 838	2001	4
5	CNCSIS	ACTIONARI ELECTRICE CU FRECVENTA VARIABILA UTILIZAND PROCESOARELE DE SEMNAL (DSP)	39401/115	1998	4
6	CNCSU	Generatoare auto noi cu reglaj electronic de putere pe 42/14V (GAN 42/14V)	36/1998 tema 42/268	1998	4
7	CNCSU	Actionari electrice universale	7004/1997 tema 19/834	1997	4
8	CNCSU	Sistem de actionare electrica universala	5004/1996 tema 317	1996	4
9	CNCSU	Contributii la Reglajul Inteligent al miscarii (RIM)	4004/1995 tema 28B	1995	4
Total A2.4.1.2					4
A2.4.2 Membru in echipa					**48**
A2.4.2.1 Internationale					
Total A2.4.2.1					
A2.4.2.1 Nationale					
1	CNSCIS	Actionari electrice noi pentru refrigerare – cresterea eficientei energetice cu cost redus	76GR/23. 05. 2007 tema 37	2007	2
2	CNSCIS	Actionari electrice noi pentru refrigerare – cresterea eficientei	58GR/19.05.2006 tema 18	2006	2
Total A2.4.2.2					**4**
Total A2.4					**132**
Total A2					**696.318238**

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A3.1.1 ISI													
1	I. Boldea, L. Tutelea, C.I. Pitic	PM-assisted reluctance synchronous motor/generator (PM-RSM) for mild hybrid vehicles: Electromagnetic design	IEEE Trans. on Industry Applications	2004	0093-9994	492-498	S. Morimoto, S. Ooi, Y. Inoue, M. Sanada	Experimental Evaluation of a Rare-Earth-Free PMASynRM With Ferrite Magnets for Automotive Applications	IEEE Trans. on Industrial Electronics	2014	61 / 0278-0046; 1557-9948	5749-5756	1.667
2							J. Nerg, M. Rilla, V. Ruuskanen, J. Pyrhonen, S. Ruotsalainen,	Direct-Driven Interior Magnet Permanent-Magnet Synchronous Motors for a Full Electric Sports Car	IEEE Trans. on Industrial Electronics	2014	61 / 0278-0046; 1557-9948	4286-4294	1.667
3							Obata, M Morimoto, S (Morimoto, Shigeo); Sanada, M (Sanada, Masayuki); Inoue, Y (Inoue, Yukinori)	Performance of PMASynRM With Ferrite Magnets for EV/HEV Applications Considering Productivity	IEEE Trans. on Industry Applic.	2014	50 / 0093-9994; 1939-9367	2427-2435	1.667

4							Duan, SY (Duan, Shiying); Zhou, LB (Zhou, Libing); Wang, J (Wang, Jin)	Flux Weakening Mechanism of Interior Permanent Magnet Synchronous Machines With Segmented Permanent Magnets	IEEE Trans. on Applied Superconductivity	2014	24 / 1051-8223; 1558-2515		1.667
5							S. Zhao, O. Wallmark, M. Leksell	Low-Speed Sensorless Control With Reduced Copper Losses for Saturated PMSynRel Machines	IEEE Trans. on Energy Conversion	2013	28/0885-8969; 1558-0059	841-848	1.667
6							S. Ooi, S. Morimoto, M. Sanada, Y. Inoue	Performance Evaluation of a High-Power-Density PMASynRM With Ferrite Magnets	IEEE Trans. on Industry Applic.	2013	49/0093-9994	1308-1315	1.667
7							T. Kosaka, M. Arata, H. Arita, K. Sakai, M.Sanada, A. Maemura	State-of-Art of Research and Development of Vehicle Motors	IEEE ECCE ASIA DOWNUNDER	2013	978-1-4799-0483-9; 978-1-4799-0482-2	153-158	1.667

8							X. Chen,J.B. Wang, P. Lazari, L. Chen	ermanent Magnet Assisted Synchronous Reluctance Machine with Fractional-Slot Winding Configurations	IEMDC	2013	978-1-4673-4974-1; 978-1-4673-4975-8	374-381	1.667
9							S. Rick, M. Felden, M. Hombitzer, K. Hameyer	Permanent Magnet Synchronous Reluctance Machine - bridge design for two-layer applications	IEMDC	2013	978-1-4673-4974-1; 978-1-4673-4975-8	1376-1383	1.667
10							M. Barcaro, N. Bianchi	Design considerations of permanent magnet machines for automotive applications	COMPEL-the Internat. Journal for Comp. and Mathemat. In Electrical and Electronic Engineering	2013	32/03 32-1649	248-277	1.667
11							Nerg, J (Nerg, J.); Rilla, M (Rilla, M.); Ruuskanen, V (Ruuskanen, V.); Pyrhonen, J (Pyrhonen, J.); Ruotsalainen, S (Ruotsalainen, S.)	Design of Direct-Driven Permanent Magnet Synchronous Motors for an Electric Sports Car	XXth ICEM	2012	978-1-4673-0142-8	177-182	1.667

12							O. Takakuwa, M.Nishikawa, H. Soyama	Technique for partially strengthening electrical steel sheet of IPM motor using cavitation peening	Materials Science and Technology	2011	27/0267-0836	1422-1426	1.667
13							S. Zhao, O. Wallmark, M. Leksell	Analysis of a deeply saturated sensorless PMSynRel drive for an automotive application	Proc. of 14th EPE	2011	978-90-75815-15-3		1.667
14							X.Z. Chen, CL. Gu	Research on Operating Performance for Hybrid Rotor Synchronous Motor	Elektronika ir Elektrotetechnika	2011	1392-1215	pp. 3-8	1.667
15							J. Kolehmainen	Synchronous Reluctance Motor With Form Blocked Rotor	IEEE Trans. on Energy Conversion	2010	25/0885-8969	450-456	1.667
16							I. Boldea, V. Coroban-Schramel, G.G. Andreescu, F. S. Scridon	BEGA Starter/Alternator-Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor Operation	IEEE Trans. on Industry Applic.	2010	46/0093-9994	150-158	1.667
17							G. Friedrich, A. Girardin	INTEGRATED STARTER GENERATOR Design, principle, constraints, and optimal control	IEEE Industry Magazine	2009	15/1077-2618	26-34	1.667

18							S. T. Lee, L.M Tolbert	Analysis of Slanted Air-gap Structure of Interior Permanent Magnet Synchronous Motor with Brushless Field Excitation	IEEE ECCE, Vols. 1-6	2009	978-1-4244-2892-2	118-123	1.667
19							J. Baek, M.M. Rahimian, H.A. Toliyat	Optimal Design of PM Assisted Synchronous Reluctance Generators using Lumped Parameter Model and Differential Evolution Strategy	IEEE ECCE, Vols. 1-6	2009	978-1-4244-2892-2	3140-3146	1.667
20							J. Baek, M.M. Rahimian, H. A.Toliyat	Optimal Design and Comparison of Stator Winding Configurations in Permanent Magnet Assisted Synchronous Reluctance Generator	2009 IEEE INTERNATIONAL ELECTRIC MACHINES & DRIVES CONFERENCE, VOLS 1-3	2009	978-1-4244-4251-5	732-737	1.667
21							J. Baek, M.M. Rahimian, H.A. Toliyat	Maximum Output Power Control of Permanent Magnet-Assisted Synchronous Reluctance Generator	ICEM Vols. 1- 4	2009	978-1-4244-1735-3	221-225	1.667

22							R. Dutta, M.F. Rahman	Design and analysis of an interior permanent magnet (IPM) machine with very wide constant power operation range	IEEE Trans. on Energy Conversion	2008	23/08 85-8969	25-33	1.667
23							I. Boldea, V. Coroban-Schramel, G.D. Andreescu, S. Scridon, F. Blaabjerg	BEGA Starter/Alternator - Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor	IEEE IAS, Vols 1-5	2008	0197-2618/ 978-1-4244-2278-4	2443-2450	1.667
24							M. Barcaro, N. Bianchi, F. Magnussen	PM Motors for Hybrid Electric Vehicles	Proc. of the 43rd Internat. Universities Power Engineering Conference, Vols 1-3	2008	978-1-4244-3294-3	1266-1270	1.667
25							C. Belalahy, I. Rasoanarivo, F.M. Sargos	Using 3D Reluctance Network for Design a Three Phase Synchronous Homopolar Machine	Proc. of. 34th IECON , Vols 1-5,	2008	1553-572X/ 978-1-4244-1767-4	1998-2003	1.667

26							P. Niazi, H.A. Toliyat, A. Goodarzi	Robust maximum torque per ampere (MTPA) control of PM-assisted SynRM for traction applications	IEEE Trans. on Vehicular Technology	2007	0018-9545	1538-1545	1.667
27							L. Chedot, G. Friedrich, J.M. Biedinger, P. Macret	Integrated starter generator: The need for an optimal design and control approach. application to a permanent magnet machine	IEEE Trans. on Industry Applic.	2007	43/0093-9994	551-559	1.667
28							H,W. de Kock, M.J. Kamper	Dynamic control of the permanent magnet-assisted reluctance synchronous machine	IET Electric Power Applicat.	2007	1/1751-8660	153-160	1.667
29							S. Talebi, P. Niazi, H.A. Toliyat	Design of Permanent Magnet-Assisted Synchronous Reluctance Motors Made Easy	Record of 42nd IAS, VOLS. 1-5	2007	0197-2618/978-1-4244-1260-0	2242-2248	1.667
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31							L. Del Ferraro, F. Caricchi, F.G. Capponi	Analysis and comparison of a speed-dependant and a torque-dependant mechanical device for wide constant power speed range in AFPM starter/alternators	IEEE Trans. on Power Electronics	2006	21/08 85-8993	720-729	1.667
32							E. Afjei, H. Toliyat, H. Moradi	A novel hybrid brushless dc motor/generator for hybrid vehicles applications	IEEE Internat. Conference on Power Electronic, Drives, and Energy Systems, Vols 1-2	2006	978-0-7803-9771-2	151-156	1.667
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34							R. Dutta, M.F. Rahman	Design and analysis of an interior permanent magnet (IPM) machine with very wide constant power operation range	32nd IECON, Vols 1-11	2006	1553-572X/ 978-1-4244-0135-2	5011-5016	1.667

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36							P. Guglielmi, G. Giraudo, G.M. Pellegrino, A. Vagati	PM assisted synchronous reluctance drive for minimal hybrid application	Record of the 39th IEEE IAS, Vols 1-4	2004	0197-2618/0-7803-8486-5	299-306	1.667
37	I. Boldea, C.I. Pitic, C. Lascu, G.D. Andreescu, L.Tutelea, F. Blaabjerg, P. Sandholdt	DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles	IEEE Trans. on Power Electronics	2006	0885-8993	711-719	T.D. Nguyen, G. Foo, K.J. Tseng, D.M.Vilathgamuwa	Modeling and Sensorless Direct Torque and Flux Control of a Dual-Airgap Axial Flux Permanent-Magnet Machine With Field-Weakening Operation	IEEE-ASME Trans. on Mechatronics	2014	19/1083-4435; 1941-014X	412-422	0.714
38							E.k. Beser, S. Camur, B. Arifoglu, E. Beser	Design and Application of a Hybrid Motor with a Rotor Structure Having Changeable Magnet and Reluctance Combination	International Review of Electrical Enginnering	2012	7/1827-6660	3828-3835	0.714
39							V.Q Leu, H.H. Choi, J.W Jung	Fuzzy Sliding Mode Speed Controller for PM Synchronous Motors With a Load Torque Observer	IEEE Trans. on Power Electronics	2012	27/0885-8993	1530-1539	0.714

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41							Wei, JD (Wei, Jiadan); Zhou, B (Zhou, Bo); Han, C (Han, Chu); Chen, CC (Chen, ChangChun); Deng, QT (Deng, Qingtang)	A Novel Open-winding Permanent Magnetic Starter-generator for Vehicles	Materials Science and Information Technology, PTS 1-8	2012	433-440/1022-6680/978-3-03785-319-1	2427-2433	0.714
42							Wallmark, O (Wallmark, O.); Galic, J (Galic, J.); Mosskull, H (Mosskull, H.)	Sensorless control of permanent-magnet synchronous motors adopting indirect self-control	IET Electric Power Applicat.	2012	6/1751-8660	pp. 12-18	0.714
43							Chwa, D (Chwa, Dongkyoung); Lee, KB (Lee, Kyo-Beum)	Variable Structure Control of the Active and Reactive Powers for a DFIG in Wind Turbines	IEEE Trans. on Industry Applic.	2010	46/0093-9994	2545-2555	0.714
44							M. Barcaro, A. Faggion, L. Sgarbossa, N. Bianchi, S. Bolognani	Performance evaluation of an integrated starter alternator using an interior permanent magnet machine	IET Electric Power Applicat.	2010	4/1751-8660	539-546	0.714

45							G. Foo, M.F. Rahman	Sensorless Sliding-Mode MTPA Control of an IPM Synchronous Motor Drive Using a Sliding-Mode Observer and HF Signal Injection	IEEE Trans. on Industrial Electronics	2010	57/0278-0046	1270-1278	0.714
46							G.H.B. Foo, M.F. Rahman	Direct Torque Control of an IPM-Synchronous Motor Drive at Very Low Speed Using a Sliding-Mode Stator Flux Observer	IEEE Trans. on Power Electronics	2010	25/0885-8993	933-942	0.714
47							Foo, G (Foo, Gilbert); Sayeef, S (Sayeef, Saad); Rahman, MF (Rahman, M. F.)	Low-Speed and Standstill Operation of a Sensorless Direct Torque and Flux Controlled IPM Synchronous Motor Drive	IEEE Trans. on Energy Conversion	2010	25/0885-8969	25-33	0.714
48							Foo, G (Foo, G.); Rahman, MF (Rahman, M. F.)	Sensorless vector control of interior permanent magnet synchronous motor drives at very low speed without signal injection	IET Electric Power Applicat.	2010	4/1751-8660	131-139	0.714
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50							Foo, G (Foo, Gilbert); Rahman, MF (Rahman, M. F.)	Wide Speed Direct Torque and Flux Controlled IPM Synchronous Motor Drive Using a Combined Adaptive Sliding Mode Observer and HF Signal Injection	Journal of Power Electronics	2009	9/1598-2092	582-592	0.714
51							I. Boldea,M.C. Paicu, G.D. Andreescu, F. Blaabjerg	"Active Flux" DTFC-SVM Sensorless Control of IPMSM	IEEE Trans. on Energy Conversion	2009	24/0885-8969	314-322	0.714
52							G. Foo,M.F. Rahman	Wide-Speed Direct Torque and Flux Controlled Interior Permanent-Magnet Synchronous Motor Drive Using a Combined Adaptive Sliding-Mode Observer and High-Frequency Signal Injection	8th ELECTROMOTION	2009	978-1-4244-5150-0	202-208	0.714
53							Foo, G (Foo, G.); Rahman, MF (Rahman, M. F.)	An Extended Rotor-Flux Model for Sensor less Direct Torque and Flux Control of Interior Permanent-Magnet Synchronous Motor Drives	8th ELECTROMOTION	2009	978-1-4244-5150-0	270-275	0.714

54							G. Foo, M.F. Rahman	A Hybrid Signal Injection and Sliding Mode Observer for Direct Torque and Flux Controlled IPMSM Drive	ICEMS VOLS 1-3	2009	978-1-4244-5177-7	1167-1172	0.714
55							G. Foo, M.F. Rahman	Sensorless Adaptive Sliding Mode Control of an IPM Synchronous Motor Drive Using a Sliding Mode Observer and HF Signal Injection	13th EPE Vols 1-9	2009	978-1-4244-4432-8	5187-5197	0.714
56							Foo, G (Foo, Gilbert); Rahman, MF (Rahman, M. F.)	Direct Torque and Flux Controlled IPM Synchronous Motor Drive using a Hybrid Signal Injection and Adaptive Sliding Mode Observer	TENCON IEEE Region 10 Conference Vols 1-4	2009	0886-1420/ 978-1-4244-4546-2	685-691	0.714
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58							I. Boldea	Control Issues in Adjustable-Speed Drives	IEEE Industrial Electronics Magazine	2008	2	32-50	0.714

59							G.D. Andreescu, C.I. Pitic, F. Blaabjerg, I.Boldea	Combined flux observer with signal injection enhancement for wide speed range sensorless direct torque control of IPMSM drives	IEEE Trans. on Energy Conversion	2008	23	393-402	0.714
60							Foo, Gilbert; Sayeef, Saad; Rahman, M. F.	Sensorless Direct Torque and Flux Control of an IPM Synchronous Motor at Low Speed and Standstill	13th Internat. Power Electronics and Motion Control Conference	2008	vols.1-5	2269-2274	0.714
61							Foo, Gilbert; Sayeef, Saad; Rahman, M. F.	Sensorless Direct Torque and Flux Control of an IPM Synchronous Motor at Low Speed and Standstill	IEEE 2nd Internat. Power and Energy Conference PECON, Vols 1-3	2008	vols.1-3	277-282	0.714
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67							Zeng, Peng; Khaligh, Alireza	A Permanent-Magnet Linear Motion Driven Kinetic Energy Harvester	IEEE Trans. on Industrial Electronics	2013	60	5737-5746	1
68							F. Marignetti, C. Carbone, V. Delli Colli, C. Attaianese	Cryogenic Characterization of Copper-Wound Linear Tubular Actuators	IEEE Trans. on Industrial Electronics	2012	59	2167-2177	1

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70							Smadi, Issam A.; Omori, Hiroko; Fujimoto, Yasutaka	Development, Analysis, and Experimental Realization of a Direct-Drive Helical Motor	IEEE Trans. on Industrial Electronics	2012	59	2208-2216	1
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72							Lee, Jaewook; Dede, Ercan M.; Nomura, Tsuyoshi	Simultaneous Design Optimization of Permanent Magnet, Coils, and Ferromagnetic Material in Actuators	IEEE Trans. on Magnetics	2011	47	4712-4716	1

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75							Huang, Yi-Sheng; Sung, Cheng-Chung	Function-Based Controller for Linear Motor Control Systems	IEEE Trans. on Industrial Electronics	2010	57	1096-1105	1
76							Li, Ke; Santiago, Wilson; Sun, Zongxuan	Modeling of a Two-Stroke Free-Piston Engine with HCCI Combustion	Proc. Of the ASME Dynamic Systems and Control Conference	2010	1	117-124	1
77							Vitoria do Espirito Santo, Antonio Eduardo; Calado, Maria do Rosario; Pereira Cabrita, Carlos Manuel	Design and evaluation of a linear switched reluctance actuator for positioning tasks	Turrkis Journal of Electrical Engineering and Computer Sciences	2010	18	925-941	1
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80							Fujimoto, Yasutaka; Kominami, Tsutomu; Hamada, Hiroshi	Development and Analysis of a High Thrust Force Direct-Drive Linear Actuator	IEEE Trans. on Industrial Electronics	2009	56	1383-1392	1
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84	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, A.E. Ritchie	BEGA-A biaxial excitation generator for automobiles: Comprehensive characterization and test results	IEEE Trans. on Industry Applications	2005	0093-9994	935-944	Zhang, Zhuoran; Ma, Shengjie; Dai, Ji; et al.	Investigation of Hybrid Excitation Synchronous Machines With Axial Auxiliary Air-Gaps and Non-Uniform Air-Gaps	IEEE Trans. on Industry Applicat.	2014	50	1729-1737	1

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86							Tang, Sai Chun; Otten, David M.; Keim, Thomas A.; et al.	Design and Evaluation of a 42-V Automotive Alternator With Integrated Switched-Mode Rectifier	IEEE Trans. on Energy Conversion	2010	25	983-992	1
87							I. Boldea, V. Coroban-Schramel, G.D. Andreescu, S. Scridon, F. Blaabjerg	BEGA Starter/Alternator-Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor Operation	IEEE Trans. on Industry Applicat.	2010	46	150-158	1
88							I. Boldea, V. Coroban-Schramel, G.D. Andreescu, S. Scridon, F. Blaabjerg	BEGA Starter/Alternator - Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor	IEEE IAS	2008	vols. 1-5	2443-2450	1
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92							Lorilla, L. M.; Keim, T. A.; Lang, J. H.; et al.	Foil field lundell alternator with rotating power electronics	2006 IEEE Power Electronics Specialists Conference	2006	vols. 1-7	923-928	1
93	S.C. Agarlita, M. Fatu, L.N.Tutelea, F. Blaabjerg, I. Boldea	I-f Starting and Active Flux Based Sensorless Vector Control of Reluctance Synchronous Motors, with Experiments	Proc. of the 12th OPTIM, PTS I-IV	2010	1842-0133	337-342	Tuovinen, Toni; Hinkkanen, Marko; Luomi, Jorma	Analysis and Design of a Position Observer With Resistance Adaptation for Synchronous Reluctance Motor Drives	IEEE Trans. on Industry Applic.	2013	49	66-73	1
94							Agarlita, Sorin-Cristian; Boldea, Ion; Blaabjerg, Frede	High-Frequency-Injection-Assisted "Active-Flux"-Based Sensorless Vector Control of Reluctance Synchronous Motors, With Experiments From Zero Speed	IEEE Trans. on Industry Applic.	2012	48	1931-1939	1

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96							Agarlita, Sorin-Cristian; Boldea, I.; Blaabjerg, Frede	High Frequency Injection Assisted "Active Flux" Based Sensorless Vector Control of Reluctance Synchronous Motors, with Experiments from zero speed	IEEE ECCE	2011		2725-2732	1
97	I. Boldea, M. Topor, F. Marignetti, S.I. Deaconu, L.N. Tutelea	A Novel, Single Stator Dual PM Rotor, Synchronous Machine: topology, circuit model, controlled dynamics simulation and 3D FEM Analysis of Torque Production	Proc. of the 12th OPTIM, PTS I-IV	2010	1842-0133	343-351	Paulides, Johannes J. H.; Gysen, Bart L. J.; Meessen, Koen J.; et al.	Influence of Multiple Air Gaps on the Performance of Electrical Machines With (Semi) Halbach Magnetization	IEEE Trans. on Magnetics	2011	47	2664-2667	1
98							Consoli, Alfio; Scelba, Giacomo; Scarcella, Giuseppe; et al.	An Effective Energy-Saving Scalar Control for Industrial IPMSM Drives	IEEE Trans. on Industrial Electronics	2013	60	3658-3669	1

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101	M. Fatu, L.Tutelea, R. Teodorescu, F. Blaabjerg, I. Boldea	Motion sensorless bidirectional PWM converter control with seamless switching from power grid to stand alone and back	IEEE Power Electronics Specialists Conference, Vols 1-6	2007	0275-9306 / 978-1-4244-0654-8	1239-1244	Fatu, Marius; Blaabjerg, Frede; Boldea, Ion	Grid to Standalone Transition Motion-Sensorless Dual-Inverter Control of PMSG With Asymmetrical Grid Voltage Sags and Harmonics Filtering	IEEE Trans. Power Electronics	2014	29	3463-3472	1
102							Milczarek, Adam; Malinowski, Mariusz	Monitoring and Control Algorithms Applied to Small Wind Turbine with Grid-Connected/Stand-Alone Mode of Operation	Przeglad Elektrotechniczny	2012	88	18-22	1
103	L. Tutelea, I. Boldea	Optimal design of residential brushless d.c. permanent magnet motors with FEM validation	Proc. of AEGEAN & ELECTROMOTION,	2007	978-1-4244-0890-0	435-439	Dobrota, Ion; Costin, Madalin; Voncila, Ion; et al.	Permanent Magnet Synchronous Motor Optimization Design for Electric Drives	Proc of the 4th ISEEE	2013			2.5

104							Fodorean, Daniel; Szabo, Lorand	Study of Permanent Magnet Synchronous Machine Topologies for Electric Scooter Application	Interdisciplinary Research in Engineerig: Steps Towards Breakthrough Inovation for Sustainable Developm.	2013	vols. 8-9	397-404	2.5
105							Jurca, F. N.; Martis, C	Theoretical and experimental analysis of a three-phase permanent magnet claw-pole synchronous generator	IET Electric Power Applicat.	2012	6	491-503	2.5
106	L.Tutelea, M.C. Kim, Y.D. Chun, T.H. Kim, S.B. Lim, J.S. Ahn, J. Lee, I. Boldea	A set of experiments to more fully characterize linear PM oscillatory machines	IEEE Trans. on Magnetics	2005	0018-9464	4009-4011	Li, Ke; Santiago, Wilson; Sun, Zongxuan	Modeling of a Two-Stroke Free-Piston Engine with HCCI Combustion	Proc. Of the ASME Dynamic Systems and Control Conference	2010	1	117-124	0.625
107							Miller, TJE; Popescu, M; Cossar, C; et al.	Performance estimation of interior permanent-magnet brushless motors using the voltage-driven Flux-MMF diagram	IEEE Trans. on Magnetics	2006	42	1867-1872	0.625

108	L. Tutelea, I. Boldea	Induction Motor Electromagnetic Design Optimization: Hooke Jeeves Method Versus Genetic Algorithms	Proc. of the 12th OPTIM, PTS I-IV	2010	1842-0133	485-492	Naumowicz, M.; Melosik, M.; Katarzynski, P.; et al.	Automation of CMOS technology migration illustrated by RGB to YCrCb analogue converter	Opto-Electronics Review	2013	21	326-331	2.5
109	N. Muntean, L. Tutelea, I. Boldea	A modified carrier-based PWM modulation technique in Z-source inverters	Proc. of AEGEAN & ELECTROMOTION,	2007	978-1-4244-0890-0	174-180	Gajanayake, C. J.; Gooi, H. B.; Luo, F. L.; et al.	Simple modulation and control method for new extended boost quasi Z-source	TENCON IEEE Region 10 Conference, Vols 1-4	2009	vols. 1-4	2088-2093	1.667
Total A31.1.1 ISI													130.6

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A3.1.2 IEEE-XPLORE								
1	I. Boldea, L. Tutelea, C.I. Pitic	PM-assisted reluctance synchronous motor/generator (PM-RSM) for mild hybrid vehicles: Electromagnetic design	IEEE Trans. on Industry Applications	2004	0093-9994	492-498	47	46
2	Boldea, I. ; Pitic, C.I. ; Lascu, C. ; Andreescu, G. ; **Tutelea, L.** ;Blaabjerg, F. ; Sandholdt, P.	DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles	Power Electronics, IEEE Trans	2006	21 , Issue: 3	711 –	29	28
3	L.N. Tutelea, M.C. Kim, M. Topor, J. Lee, I. Boldea	Linear permanent magnet oscillatory machine: Comprehensive modeling for transients with validation by experiments	IEEE Transactions on Industrial Electronis, Vol. 55, No. 2	2008	0278-0046	492-500	21	18
4	L. Tutelea, I. Boldea	Optimal design of residential brushless d.c. permanent magnet motors with FEM validation	Proc. of International AEGEAN Conference on Electrical Machines and Power Electronics & ELECTROMOTION	2007	978-1-4244-0890-0	435-439	9	2
5	L.I. Iepture, L. Tutelea, I. Boldea	FEM analysis and control of a tapered airgap single phase PMSM	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	241-248	9	9
6	V. Grădinaru, L. Tutelea, I. Boldea	25 kW, 15 krpm, 6/4 PMSM: Optimal Design	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	249-256	9	8
7	I.Boldea, M.Topor, F. Marignetti, S.I. Deaconu, L.N. Tutelea	A Novel, Single Stator Dual PM Rotor, Synchronous Machine: topology, circuit model, controlled dynamics simulation and 3D FEM Analysis of Torque Production	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	343-351	6	1

8	M Fatu, L. Tutelea, R. Teodorescu, F. Blaabjerg, I. Boldea	Motion sensorless bidirectional PWM converter control with seamless switching from power grid to stand alone and back	IEEE Power Electronics Specialists Conference, VOLS 1-6	2007	0275-9306 / 978-1-4244-0654-8	1239-1244	6	5
9	S.C. Agarlita, M. Fatu, L.N. Tutelea, F. Blaabjerg, I. Boldea	I-f Starting and Active Flux Based Sensorless Vector Control of Reluctance Synchronous Motors, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	337-342	5	5
10	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, A.E. Ritchie	BEGA-A biaxial excitation generator for automobiles: Comprehensive characterization and test results	IEEE Transactions on Industry Applications, Vol. 41, No 4	2005	0093-9994	935-944	5	5
11	M. Fatu, L. Tutelea, I. Boldea, R .Teodorescu	Novel motion sensorless control of stand alone permanent magnet synchronous generator (PMSG): harmonies and negative sequence voltage compensation under nonlinear load	European Conference on Power Electronics and Applications	2007	978-90-75815-11-5	4421-4430	5	5
12	I. Boldea, A. Moldovan, V. Coroban Schramel, G.D. Andreescu, L. Tutelea	A Class of Fast Dynamics V/f Sensorless AC General Drives with PM-RSM as a Case Study	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	453-459	4	4
13	L. Tutelea, M.C. Kim, Y.D. Chun, T.H. Kim, S.B. Lim, J.S. Ahn, J. Lee, I. Boldea	A set of experiments to more fully characterize linear PM oscillatory machines	IEEE Transactions on Magnetics, Vol. 41, No 10	2005	0018-9464	4009-4011	3	2
14	S.C. Agarlita, I. Boldea, F. Marignetti, L. Tutelea	Linear Permanent-Magnet Valve Actuator - The Dynamic Model: Digital Simulations, Open-Loop U/f and I/f Operation and Position Estimation Performance, with Experiments	8th International Symposium on Advanced Electromechanical motion systems (ELECTROMOTION 2009)	2009	978-1-4244-5150-0	320-324	3	3

15	I. Serban, GD Andreescu, L. Tutelea, F. Blaabjerg, C. Lascu, I. Boldea	New state observers and sensorless control of wound rotor induction generator (WRIG) at power grid with experimental characterization	32nd Annual Conference on IEEE Industrial Electronics (IECON 2006), Paris	2006	1553-572X / 978-1-4244-0135-2		2	2
16	L. Tutelea, I. Boldea	Induction Motor Electromagnetic Design Optimization: Hooke Jeeves Method Versus Genetic Algorithms	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	485-492	2	1
17	S.C. Agarlita, I. Boldea, F. Marignetti, L.N. Tutelea	Position Sensor less Control of a Linear Interior Permanent Magnet Oscillatory Machine, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	689-695	2	2
18	M.C. Paicu, L. Tutelea, G.D. Andreescu, F. Blaabjerg, C. Lascu, I. Boldea	Wide Speed Range Sensorless Control of PM-RSM Via "Active Flux Model"	IEEE Emergy Conversion Congress and Exposition (ECCE 2009)	2009	978-1-4244-2892-2	3695-3702	2	1
19	L. Tutelea, I. Boldea	Polygonal Flux modulation (PFM) in ac drives	Proc. of 6th OPTIM'98, Brasov, Romania	1998	10.1109/OPTIM.1998.707963	389 - 394	2	2
20	L. Strete, L. Tutelea, I. Boldea, C. Martis, I. Viorel	Optimal design of a rotating transverse flux motor (TFM) with permanent magnets in rotor	Electrical Machines (ICEM), 2010 XIX International Conference on, Roma	2010	978-1-4244-4174-7	1-6	1	1
21	A.S. Isfanuti, M. Baba, L. Tutelea, A. Moldovan, I. Boldea	Surface NdFeB versus Ferrite IPM motor drive for low power (100W to 2000W) applications: FEM embedded optimal design with full step torque response validation in sensorless vector control	39th Annual Conference of the IEEE Industrial-Electronics-Society (IECON)	2013	1553-572X / 978-1-4799-0224-8	3177-3182	1	1
22	S. Agarlita, D. Ursu, L. Tutelea, I. Boldea, B. Fahimi	BLDC multiphase reluctance machines: A revival attempt with 2D FEM investigation and standstill tests	Energy Conversion Congress and Exposition (ECCE), 2013 IEEE	2013	10.1109/ECCE.2013.6646933	1850-1857	1	1

23	I. Boldea, L. N.Tutelea, L. Parsa, D. Dorrell	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview	IEEE Transactions on Industrial Electronis, Vol. 61, No. 10	2014	0278-0046; 1557-9948	5696-5711	1	1
24	I. Boldea, L. Tutelea, M. Topor	Theoretical characterization of three phase flux reversal machine with rotor-PM flux concentration	Optimization of Electrical and Electronic Equipment (OPTIM), 2012 13th International Conference on	2012	10.1109/OPTIM.2012.6231876	472 - 476	1	1
25	L Tutelea, E. Ritchie, I. Boldea	Permanent magnet in-wheel synchronous motor for electric vehicle	Proc. of 5th ICEMS'2001: Vols I-II	2001	7-5062-5115-9	831-834	3	3
	Total IEEE-XPLORE						179	157

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A3.1.2 -Scopus									
1	I. Boldea, L. Tutelea, C.I. Pitic	PM-assisted reluctance synchronous motor/generator (PM-RSM) for mild hybrid vehicles: Electromagnetic design	IEEE Trans. on Industry Applications	2004	0093-9994	492-498	63	62	62
2	Boldea, I. ; Pitic, C.I. ; Lascu, C. ; Andreescu, G.**Tutelea, L.**	DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles	Power Electronics, IEEE T	2006	21 , Issue	711 – 7	47	46	19.714
3	L.N. Tutelea, M.C. Kim, M. Topor, J. Lee, I. Boldea	Linear permanent magnet oscillatory machine: Comprehensive modeling for transients with validation by experiments	IEEE Transactions on Industrial Electronis, Vol. 55, No. 2	2008	0278-0046	492-500	25	21	12.6
4	M Fatu, L. Tutelea, R. Teodorescu, F. Blaabjerg, I. Boldea	Motion sensorless bidirectional PWM converter control with seamless switching from power grid to stand alone and back	IEEE Power Electronics Specialists Conference, VOLS 1-6	2007	0275-9306 / 978-1-4244-0654-8	1239-1244	10	10	6
5	V. Grădinaru, L. Tutelea, I. Boldea	25 kW, 15 krpm, 6/4 PMSM: Optimal Design	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	249-256	9	7	7
6	L. Tutelea, I. Boldea	Optimal design of residential brushless d.c. permanent magnet motors with FEM validation	Proc. of International AEGEAN Conference on Electrical Machines and Power Electronics & ELECTROMOTION	2007	978-1-4244-0890-0	435-439	8	3	4.5
7	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, A.E. Ritchie	BEGA-A biaxial excitation generator for automobiles: Comprehensive characterization and test results	IEEE Transactions on Industry Applications, Vol. 41, No 4	2005	0093-9994	935-944	8	8	4.8

8	I.Boldea, M.Topor, F. Marignetti, S.I. Deaconu, L.N. Tutelea	A Novel, Single Stator Dual PM Rotor, Synchronous Machine: topology, circuit model, controlled dynamics simulation and 3D FEM Analysis of Torque Production	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	343-351	7	2	1.2
9	L.I. Iepture, L. Tutelea, I. Boldea	FEM analysis and control of a tapered airgap single phase PMSM	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	241-248	6	6	6
10	I. Boldea, A. Moldovan, V. Coroban Schramel, G.D. Andreescu, L. Tutelea	A Class of Fast Dynamics V/f Sensorless AC General Drives with PM-RSM as a Case Study	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	453-459	5	5	3
11	I. Serban, GD Andreescu, L. Tutelea, F. Blaabjerg, C. Lascu, I. Boldea	New state observers and sensorless control of wound rotor induction generator (WRIG) at power grid with experimental characterization	32nd Annual Conference on IEEE Industrial Electronics (IECON 2006), Paris	2006	1553-572X / 978-1-4244-0135-2		5	5	2.5
12	S.C. Agarlita, M. Fatu, L.N. Tutelea, F. Blaabjerg, I. Boldea	I-f Starting and Active Flux Based Sensorless Vector Control of Reluctance Synchronous Motors, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	337-342	4	4	2.4
13	L. Tutelea, M.C. Kim, Y.D. Chun, T.H. Kim, S.B. Lim, J.S. Ahn, J. Lee, I. Boldea	A set of experiments to more fully characterize linear PM oscillatory machines	IEEE Transactions on Magnetics, Vol. 41, No 10	2005	0018-9464	4009-4011	4	3	1.125
14	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, E. Ritchie	BEGA - A biaxial excitation generator for automobiles: Comprehensive characterization and test results	Record of the 2004 IEEE Industry Applications Conference (IAS), VOLS 1-4	2004	0197-2618 / 0-7803-8486-5	1682-1690	4	4	2.4

15	I. Boldea, L. Tutelea, M. Topor	Theoretical characterization of three phase flux reversal machine with rotor-PM flux concentration	Optimization of Electrical and Electronic Equipment (OPTIM), 2012 13th Intern. Conference on	2012	10.1109/OPTIM.2012.6231876	472 - 476	3	3	3
16	I. Boldea, L. N.Tutelea, L. Parsa, D. Dorrell	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview	IEEE Transactions on Industrial Electronis, Vol. 61, No. 10	2014	0278-0046; 1557-9948	5696-5711	2	2	1.5
17	S.C. Agarlita, I. Boldea, F. Marignetti, L.N. Tutelea	Position Sensor less Control of a Linear Interior Permanent Magnet Oscillatory Machine, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	689-695	2	2	1.5
18	L. Tutelea, I. Boldea	Induction Motor Electromagnetic Design Optimization: Hooke Jeeves Method Versus Genetic Algorithms	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	485-492	2	1	1.5
19	A. Stirban, L. Tutelea, D. Iles-Klumpner, I. Boldea	FEM analysis of concentrated coils nonuniform slot (6+6/8) IPMSM fed with trapezoidal current	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	45-52	2	2	1.5
20	S. Agarlita, D. Ursu, L. Tutelea, I. Boldea, B. Fahimi	BLDC multiphase reluctance machines: A revival attempt with 2D FEM investigation and standstill tests	Energy Conversion Congress and Exposition (ECCE), 2013 IEEE	2013	10.1109/ECCE.2013.6646933	1850-1857	1	1	0.6
21	M.C. Paicu, L. Tutelea, G.D. Andreescu, F. Blaabjerg, C. Lascu, I. Boldea	Wide Speed Range Sensorless Control of PM-RSM Via "Active Flux Model"	IEEE Emergy Conversion Congress and Exposition (ECCE 2009)	2009	978-1-4244-2892-2	3695-3702	1	1	0.5
	Total A3.1.2 -Scopus						218	**198**	**145.34**

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Nr. crt. al citarii	Autorii art citat	Titlu articol citat	Revista/ Proceedings	Anul	Vol./ ISSN/ ISBN	Pag.	Nr. citari	Nr. citari valide (alfabet latin)	Numar citari valide fara auto-citari	Punctaj
A3.1.2 IEEE-Scholar Google										
1	I. Boldea, L. Tutelea, C.I. Pitic	PM-assisted reluctance synchronous motor/generator (PM-RSM) for mild hybrid vehicles: Electromagnetic design	IEEE Trans. on Industry Applications	2004	0093-9994	492-498	90	78	77	77
2	I. Boldea, I. Serban L. Tutelea	Variable speed electric generators and their control: an emerging technology	Journal of Electrical Engineering vol 2, no 1	2002	1582-4594	40-47	68	29	29	29
3	Boldea, I. ; Pitic, C.I. ; Lascu, C. ; Andreescu, G.**Tutelea, L.**	DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles	Power Electronics, IEEE Trans	2006	10.1109/T	11 – 71	46	43	42	18
4	I Boldea, LN Tutelea	Electric machines: steady state, transients, and design with MATLAB	(book) CRC Press, Inc				45	43	38	57
5	L.N. Tutelea, M.C. Kim, M. Topor, J. Lee, I. Boldea	Linear permanent magnet oscillatory machine: Comprehensive modeling for transients with validation by experiments	IEEE Transactions on Industrial Electronis, Vol. 55, No. 2	2008	0278-0046	492-500	34	33	31	18.6
6	S. Scridon, I. Boldea, L. Tutelea, F. Blaabjerg, A.E. Ritchie	BEGA-A biaxial excitation generator for automobiles: Comprehensive characterization and test results	IEEE Transactions on Industry Applications, Vol. 41, No 4	2005	0093-9994	935-944	25	24	24	14.4

7	M Fatu, L. Tutelea, R. Teodorescu, F. Blaabjerg, I. Boldea	Motion sensorless bidirectional PWM converter control with seamless switching from power grid to stand alone and back	IEEE Power Electronics Specialists Conference, VOLS 1-6	2007	0275-9306 / 978-1-4244-0654-8	1239-1244	16	12	11	6.6
8	L.I. Iepture, L. Tutelea, I. Boldea	FEM analysis and control of a tapered airgap single phase PMSM	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	241-248	15	12	12	12
9	L. Tutelea, I. Boldea	Optimal design of residential brushless d.c. permanent magnet motors with FEM validation	Proc. of International AEGEAN Conference on Electrical Machines and Power Electronics & ELECTROMOTION	2007	978-1-4244-0890-0	435-439	15	15	9	13.5
10	M. Fatu, L. Tutelea, I. Boldea, R .Teodorescu	Novel motion sensorless control of stand alone permanent magnet synchronous generator (PMSG): harmonies and negative sequence voltage compensation under nonlinear load	European Conference on Power Electronics and Applications	2007	978-90-75815-11-5	4421-4430	11	10	10	7.5
11	I. Boldea, L. N.Tutelea, L. Parsa, D. Dorrell	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview	IEEE Transactions on Industrial Electronis, Vol. 61, No. 10	2014	0278-0046; 1557-9948	5696-5711	10	10	10	7.5
12	V. Grădinaru, L. Tutelea, I. Boldea	25 kW, 15 krpm, 6/4 PMSM: Optimal Design	Proc. of 11th OPTIM 2008, Vol. I, Brasov, Romania	2008	978-1-4244-1544-1	249-256	9	9	8	8
13	N. Muntean, L. Tutelea, I. Boldea	A modified carrier-based PWM modulation technique in Z-source inverters	Proc. of International AEGEAN Conference on Electrical Machines and Power Electronics & ELECTROMOTION	2007	978-1-4244-0890-0	174-180	9	7	7	7
14	I. Serban, GD Andreescu, L. Tutelea, F. Blaabjerg, C. Lascu, I. Boldea	New state observers and sensorless control of wound rotor induction generator (WRIG) at power grid with experimental characterization	32nd Annual Conference on IEEE Industrial Electronics (IECON 2006), Paris	2006	1553-572X / 978-1-4244-0135-2		9	6	6	3

15	L. Tutelea, I. Boldea	Induction Motor Electromagnetic Design Optimization: Hooke Jeeves Method Versus Genetic Algorithms	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	485-492	7	6	5	7.5
16	I. Boldea, L. Tutelea, C. Klumpner	Artificial loading of induction machines: A review	Workshop on Electrical Machine's Parameters, Technical University of Cluj-Napoca, 26th of May, 2001	2001		9-14	7	7	6	6
17	Boldea, I; S.Scridon, Tutelea, L;	BEGA-A biaxial excitation generator for automobiles	Proc. of 7th OPTIM 2000, Brasov, Romania	2000	973-9474-62-4	345-352	7	7	6	6
18	L. Tutelea, I. Boldea, E.A. Ritchie, P. Sandholdt, F. Blaabjerg	Thermal testing for inverter-fed induction machines using mixed frequency method	Proceedings of ICEM'98 Istanbul,Turkey	1998		248-253	7	6	4	2.4
19	I.Boldea, M.Topor, F. Marignetti, S.I. Deaconu, L.N. Tutelea	A Novel, Single Stator Dual PM Rotor, Synchronous Machine: topology, circuit model, controlled dynamics simulation and 3D FEM Analysis of Torque Production	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	343-351	6	6	1	0.6
20	I. Boldea, L.N. Tutelea, D. Ursu	BLDC Multiphase Reluctance Machines for Wide Range Applications: a revival attempt	15th International Power Electronics and Motion Control Conference (EPE/PEMC)	2012	978-1-4673-1972-0	LS1b.1-1 - LS1b.1-6	5	5	3	3
21	S.C. Agarlita, I. Boldea, F. Marignetti, L.N. Tutelea	Position Sensor less Control of a Linear Interior Permanent Magnet Oscillatory Machine, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	689-695	5	5	4	3
22	I. Boldea, A. Moldovan, V. Coroban Schramel, G.D. Andreescu, L. Tutelea	A Class of Fast Dynamics V/f Sensorless AC General Drives with PM-RSM as a Case Study	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	453-459	5	5	5	3

23	S.C. Agarlita, M. Fatu, L.N. Tutelea, F. Blaabjerg, I. Boldea	I-f Starting and Active Flux Based Sensorless Vector Control of Reluctance Synchronous Motors, with Experiments	Proc. of 12th OPTIM 2010, PTS I-IV, Brasov, Romania	2010	1842-0133	337-342	5	5	5	3
	Total Scholar Google						**456**	**383**	**353**	**314**

Total A3.1.2 BDI	**581**
Total A3.1.	**711**

Recunoasterea impactului A3.2-A3.7

1	3.2. Prezentari invitate in plenul unor manifestari stiintifice si profesor invitat (exclusiv POS, Erasmus)		3.2.1 internationale	20	25	500
2			3.2.2 nationale	5		0
3	3.3 Membru in colectivele de redactie sau comitete stiintifice al revistelor simanifestarilor	Punctaj unic pentru fiecare activitate	3.2.1 ISI	10	1	10
4			3.3.2 BDI	6	1	6
5			3.3.3 nationale si internationale neindexate	3	0	
6	3.4 Experienta management		3.4.1 Conducere	5* nr.ani	4	20
7			3.4.2 Membru organisme conducere	2*nr. ani	20	40
8	3.5 Referent comisii doctorat		3.5.1 internationale	10	3	30
9			3.5.2 nationale	5	25	125
10	3.6 Premii		Academia Romana	30	1	30
11			ASAS, AOSR, academii de ramura si CNCS	15		0
12			premii internationale	10	5	50
13			premii nationale in domeniu	5		0
14	3.7 Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartenenta la organizatii din domeniul educatiei si cercetarii	3.7.1 Academia romana		100	1	100
15		3.7.2 ASAS,AOSR, si academii de ramura		30	1	30
16		3.7.2 Conducere asociatii profesionale	internationale	30		0
17			nationale	10		0
18		3.7.4 Asociatii profesionale	internationale	5	1	5
19			nationale	2		0
20		Consilii si organizatii in domeniul educatiei	Conducere	15		0
21			Membru	10	1	10
	Total A3.2+A3.3+A3.5+A3.6+A3.7					**956**