

Fisa de verificare

a îndeplinirii Standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare în domeniul Ingineria Materialelor –PROFESOR

Dep: IMF

Domeniu: Ingineria Materialelor

CD: Conf. Utu Ion Dragos

Nr. crt.	Domeniul activitatilor	Tipul activitatii	Categoriile si restrictii	Subcategoriile	Indicatori (kpi)	Valoare indicator			
1	Activitati didactice si profesionale (A1)	1.1	Carti si capitole in carti de specialitate	1.1.1.	Carti/capitole ca autor	1.1.1.1	Internationale	Nr. pag/(2 x nr. autori)	22,50
						1.1.1.2	Nationale	Nr. pag/(5 x nr. autori)	63,60
			1.1.2.	Carti/capitole ca editor	1.1.2.1	Internationale	Nr. pag/(3 x nr. editori)	34,89	
					1.1.2.2	Nationale	Nr. pag/(7 x nr. editori)		
		1.2	Material didactic/Lucrari didactice	1.2.1	Manuale didactice/Monografii, inclusiv electronice		Nr. pag/(10 x nr. autori)	21,10	
				1.2.2	Indrumatoare de laborator		Nr. pag/(20 x nr. autori)	4,75	
Minim						60	146,83		
2	Activitatea de cercetare (A2)	2.1	Articole în reviste cotate ISI Thomson Reuters-Web of Science core Collection și în volume indexate ISI Proceesings- Web of Science în specificul postului scos la concurs	2.1.1	Minim 15 articole pentru profesor din care minim 10 în reviste cotate ISI Th.R. (din care min. 5 cu Fi de min. 1 și min 5 ca autor principal cu Fi min. 0.5)		50 * X /nr. autori; (pentru reviste X = factorul de impact al revistei; pentru articole în volume X = 0,1)	650,16	
				2.1.2	Minim 10 articole pentru conferențiar, din care minim 5 în reviste cotate ISI Th.R. (din care min. 3 cu Fi de min. 1 și min 2 ca autor principal cu Fi min. 0.5)				
		2.2	Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale			50*X/nr. Autori; X = 0,08	14,13		

		2.3	Brevete de inventie acordate, neindexate/indexate ISI Th.R.-Web of Science-Derwent Innovation Index		2.3.1	Internationale (Triadic, Europatent)	25/50/nr. Autori		
					2.3.2	Nationale	15/25/nr. Autori	6,25	
		2.4	Granturi/proiecte castigate prin competitie	2.4.1	Director/responsabil partener: Minim 2 pt. Profesor, Minim 1 pt. Conferențiar	2.4.1.1	Internationale	20 x ani desfășurare	
					2.4.1.2	Nationale	5 x ani desfășurare	30	
				2.4.2	Membru in echipa	2.4.2.1	Internationale	4 x ani desfășurare	8
					2.4.2.2	Nationale	2 x ani desfășurare	42	
							Minim	320	750,55
3	area si impactul activitatii (A3)	3.1	Citari in reviste ISI si BDI (Se exclud autocitările: lucrari citate, articol de revista, conferinta, carte, teza, brevet inventie)	Se exclud autocitările tuturor coatorilor; Lucrări citate, articol de revistă, conferință, carte, teză, brevet inventie; Minim 30 citări pt Profesorși minim 15 pt. Conf in ISI Thomson Reuters - Web of Science Core Collection și SCOPUS	3.1.1	ISI	5/nr. autori pt. $FI < 0,5$; 10/nr. autori pt. $0,5 \leq FI < 1$; 15/nr. autori pt $1 \leq FI \leq 2$; 20/nr. autori pt $FI > 2$; 30/nr. autori pt $FI > 5$	497	
					3.1.2	BDI	3/nr. autori		
			3.2	Prezentari invitate in plenum unor manifestari stiintifice nationale si internationale si Profesor invitat (exclusiv ERASMUS)		3.2.1	Internationale	8	
						3.2.2	Nationale	4	
						3.2.3	Profesor invitat	8	
			3.3	Membru in colectivele de redactie sau comitete stiintifice ale revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice / Recenzor pentru reviste si manifestari stiintifice nationale si internationale indexate ISI	3.3.1	ISI	editor/chairman = 12 membru = 8 recenzor = 5	15	
					3.3.2	BDI	editor/chairman = 10 membru = 5 recenzor = 3	10	
					3.3.3	Nationale si internationale neindexate	editor/chairman = 5 membru = 3 recenzor = 2	5	
			3.4	Expert evaluare proiecte de cercetare	3.4.1	Internaționala	10 x nr. contracte evaluate		

Recunoastri	3.5	Premii	3.4.2	Naționale		5 x nr. contracte evaluate	35	
			3.5.1	Academia Romana		50		
			3.5.2	ASAS, ASOR, Academii de ramura si CNCSIS		20		
			3.5.3	Premii internationale		10		
			3.5.4	Premii nationale in domeniu		5		
	3.6	Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartenenta la organizatii din domeniul educatiei si cercetarii	3.6.1	Academia Romana		50		
			3.6.2	ASAS, ASOR si academii de ramura		10		
			3.6.3	Conducere asociatii profesionale	3.6.3.1	Internationale	15	
					3.6.3.2	Nationale	5	
			3.6.4	Asociatii profesionale	3.6.4.1	Internationale	5	
					3.6.4.2	Nationale	2	
			3.6.5	Organizatii in domeniul educatiei si cercetarii	3.6.5.1	Conducere	10	
	3.6.5.2	Membru			2			
	Minim						120	562

Activitati didactice si profesionale (A1)		
1.1	Carti si capitole in carti de specialitate	
1.1.1	Carti/capitole ca autor	
	1.1.1.1	Internationale
	1.1.1.2	Nationale
1.1.2	Carti/capitole ca editor	
	1.1.2.1	Internationale
	1.1.2.2	Nationale

Justificare:

Activitati didactice si profesionale (A1)

Subcat.	Autorii	Titlul	Editura	Localitatea	Anul	Nr. pagini	Nr. autori	Punctaj
1.1.1.1	Codrean Cosmin, Serban Viorel Aurel, Utu Ion-Dragos	Amorphous and nanocrystalline alloys	VDM Verlag Dr. Mueller		2009	135	3	22,5
							Total	22,5

Activitati didactice si profesionale (A1)

Subcat.	Autorii	Titlul	Editura	Localitatea	Anul	Nr. pagini	Nr. autori	Punctaj
1.1.1.2	Utu Ion-Dragos, Mitelea Ion	Introducere in ingineria suprafetelor	Politehnica	Timisoara	2018	220	2	22,00
	Mitelea Ion, Utu Ion-Dragos	Selectia, utilizarea si reciclarea materialelor ingineresti	Politehnica	Timisoara	2014	416	2	41,60
							Total	63,60

Activitati didactice si profesionale (A1)		
1.2	Material didactic/Lucrari didactice	
1.2.1	Manuale didactice/Monografii	
1.2.2	Indrumatoare de laborator/aplicatii	

Justificare:

Activitati didactice si profesionale (A1)

Categ.	Autorii	Titlul	Editura	Localitatea	Anul	Nr. pagini	Nr. autori	Punctaj
1.2.1	Georgevici Iulian, Mitelea Ion, Utu Dragos	Oteluri inoxidabile martensitice "moi"	Politehnica	Timisoara	2008	183	3	6,10
	Utu Ion-Dragos	Straturi de acoperire rezistente la cald	Politehnica	Timisoara	2008	150	1	15,00
Total								21,10

Activitati didactice si profesionale (A1)

Categ.	Autorii	Titlul	Editura	Localitatea	Anul	Nr. pagini	Nr. autori	Punctaj
1.2.2	Codrean Cosmin, Utu Ion Dragos, Buzdugan Dragos, Serban Viorel-Aurel	Materiale metalice avansate - Aplicatii practice	Politehnica	Timisoara	2016	141	5	1,41
	Serban Viorel-Aurel, Raduta Aurel, Codrean Cosmin, Utu Ion-Dragos, Opris Carmen	Materiale si tehnologii primare in experimente	Politehnica	Timisoara	2013	161	5	1,61
	Serban Viorel-Aurel, Raduta Aurel, Codrean Cosmin, Utu Ion-Dragos	Materiale si tehnologii primare in experimente	Politehnica	Timisoara	2007	138	4	1,73
Total								4,75

Activitatea de cercetare (A2)	
2.1	Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI Proceedings

Justificare:

Activitatea de cercetare (A2) - Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI Proceedings

Subcat.	Autorii	Titlul	Revista , proceeding, nr. sau vol.	Anul	Nr. pagini	Nr. autori	Fact. Imp (FI)	Punctaj
2.1	Mitelea Ion, Bena Traian, Bordeasu Ilare, Utu Ion Dragos, Craciunescu Marius Corneliu	Enhancement of Cavitation Erosion Resistance of Cast Iron with TIG Remelted Surface	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 50A (8)	2019	3767-3775	5	1,985	19,85
	Utu Ion Dragos, Mitelea Ion, Bordeasu Ilare, Bena Traian	Investigations Concerning the Corrosion and Ultrasonic Cavitation Erosion of 316L Coatings Deposited HVOF on Nodular Cast Iron	REVISTA DE CHIMIE 70(5)	2019	1625-1631	4	1,605	20,06
	Mitelea Ion, Utu Ion Dragos, Karancsi Olimpiu, Urgan Sorin Dumitru, Craciunescu Marius Corneliu	Investigation of the microstructure of dissimilar welds in duplex stainless steel and low alloyed steel	MATERIALS TESTING, Volume: 61 Issue: 2	2019	120-124	5	0,573	5,73
	Voda Mircea, Codrean Cosmin, Chicot Didier, Serban Viorel-Aurel, Utu, Dragos, Linul Emanoil, Buzdugan Dragos	Characterization of brazed joints by electrical resistance spot brazing with Ni-based amorphous self-flux alloys	JOURNAL OF MANUFACTURING PROCESSES, Volume: 37	2019	617-627	6	3,462	28,85
	Szabo Alexandru, Bordeasu Ilare, Utu Ion Dragos, Mitelea Ion	In vitro Behaviour of Alumina-Hydroxiapatite Composites Coatings	REVISTA DE CHIMIE Volume: 69 Issue: 6	2018	1416-1418	4	1,605	20,06
	Mitelea Ion, Utu Ion Dragos, Urgan Sorin Dumitru, Craciunescu Marius Corneliu	The effect of the solution treatment onto the microstructure and mechanical properties of MAG pulsed welded joints from X2CrNiMoN22-5-3 Duplex stainless steels	MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK Volume: 48 Issue: 11	2017	1040-1048	4	0,556	6,95

Mitelea Ion, Bordeasu Ilare, Varzaru Nicoalaie, Utu Ion Dragos	Research of the Thermal Gradient and Quality of Welded Joints from PVC Thermoplastics Foils at High Frequency Symmetric Welding	MATERIALE PLASTICE Volume: 54 Issue: 3	2017	461-465	4	1,393	17,41
Utu Ion Dragos, Marginean Gabriela	Effect of electron beam remelting on the characteristics of HVOF sprayed Al ₂ O ₃ -TiO ₂ coatings deposited on titanium substrate	COLLOIDS AND SURFACES A- PHYSICO-CHEMICAL AND ENGINEERING ASPECTS Volume: 526	2017	70-75	2	3,131	78,28
Craciun Alexandru, Pinca Bretonean Camelia, Utu Dragos, Josan Ana	Tribological properties of nonasbestos brake pad material by using coconut fiber	IOP Conference Series-Materials Science and Engineering, Volume: 163	2017	1-9	4	0,1	1,25
Simon Natanael, Mitelea Ion, Burca Mircea,Utu Ion Dragos	PARTICULARITIES OF CMT/CMTP BRAZE - WELDING PROCESS BETWEEN GALVANIZED STEEL AND ALUMINIUM ALLOY	METAL 2017: 26TH INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS, Brno	2017	672-677	4	0,1	1,25
Bena Traian, Mitelea Ion, Bordeasu Ilare, Utu Ion Dragos, Craciunescu Corneliu Marius	THE QUENCHING - TEMPERING HEAT TREATMENT AND CAVITATION EROSION RESISTANCE OF NODULAR CAST IRON WITH FERRITE - PEARLITE MICROSTRUCTURE	METAL 2017: 26TH INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS, Brno	2017	731-736	5	0,1	1,00
Riemschneider Eduard, Bordeasu Ilare, Mitelea Ion, Utu Ion Dragos	CAVITATION EROSION OF GREY CAST IRON WITH PEARLITE MICROSTRUCTURE	METAL 2017: 26TH INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS, Brno	2017	985-990	4	0,1	1,25
Mitelea Ion, Utu Ion Dragos, Urlan Sorin Dumitru, Karancsi Olimpiu	Microstructure characterization and corrosion testing of MAG pulsed duplex stainless steel welds	MATERIALS TESTING Volume: 59 Issue: 7-8	2017	642-646	4	0,573	7,16

Pascu Alexandru, Stanciu E. M., Roata Ionut, Hulka Iosif, Utu Dragos, Maior Ioana	INFLUENCE OF THE LASER CLADDING. PARAMETERS AND SOLAR HEAT TREATMENT ON THE PROPERTIES OF BIOCOMPATIBLE INCONEL 718 COATINGS	REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS Volume: 47 Issue: 2	2017	157-165	6	0,628	5,23
Bordeasu Ilare, Micu Lavinia Madalina, Mitelea Ion, Utu, Ion Dragos, Pirvulescu Liviu Daniel, Sirbu Nicusor Alin	Cavitation Erosion of HVOF Metal-ceramic Composite Coatings Deposited onto Duplex Stainless Steel Substrate	MATERIALE PLASTICE 53(4)	2016	781-786	6	1,393	11,61
Mitelea Ion, Utu Ion Dragos, Cutean Simona, Craciunescu Corneliu	TIG deposition of Ti on steel substrates using Cu as interlayer	MATERIALS TESTING 58(9)	2016	725-730	4	0,573	7,16
Utu Ion-Dragos, Mitelea Ion, Urlan Sorin Dumitru, Craciunescu Corneliu	Transformation and Precipitation Reactions by Metal Active Gas Pulsed Welded Joints from X2CrNiMoN22-5-3 Duplex Stainless Steels	MATERIALS	2016	1-15	4	2,972	37,15
Mitelea Ion, Bordeasu Ilare, Utu Ion-Dragos, Karancsi Olimpiu	Improvement of the Cavitation Erosion Resistance of Titanium Alloys Deposited by Plasma Spraying and Remelted by Laser	MATERIALE PLASTICE	2016	29-33	4	1,393	17,41
Urlan Sorin Dumitru, Mitelea Ion, Utu Ion-Dragos, Karancsi Olimpiu, Burca Mircea	PROCESS PARAMETERS AND THE STRUCTURE OF MAG PULSED DUPLEX STAINLESS STEEL WELDED JOINTS	PROCEEDINGS OF 25TH INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS	2016	873-878	5	0,1	1,00
Hulka Iosif, Serban Viorel-Aurel, Utu Dragos, Duteanu Narcis, Pascu Alexandru, Roata Ionut, Maior Ioana	WEAR RESISTANCE OF LASER CLADDING NiCrBSi COMPOSITE COATINGS	REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS 46(1)	2016	49-54	7	0,628	4,49
Hulka Iosif, Serban Viorel-Aurel, Utu Dragos, Duteanu Narcis, Pascu Alexandru, Roata Ionut	CORROSION RESISTANCE OF LASER CLADDED NiCrBSi COMPOSITE COATINGS	STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA 60(4)	2015	173-184	6	0,275	2,29

Serban Viorel-Aurel, Utu Ion-Drăgăș, Marginean Gabriela	Substrate influence on the properties of thermally sprayed WC-CrC-Ni cermet coatings	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS vol. 7, No. 9-10	2015	1425-1430	3	0,588	9,80
Utu Ion-Drăgăș, Marginean Gabriela, Hulka Iosif, Serban Viorel Aurel, Cristea Daniel	Properties of the thermally sprayed Al ₂ O ₃ -TiO ₂ coatings deposited on titanium substrate	INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS 51	2015	118-123	5	2,794	27,94
Urlan Sorin Dumitru, Mitelea Ion, Utu Ion-Drăgăș, Burca Mircea	MICROSTRUCTURE OF THE PULSED MIG / MAG WELDED JOINTS FROM DUPLEX STAINLESS STEEL X2CrNiMoN 22-5-3	PROCEEDINGS OF 24TH INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS	2015	898-903	4	0,1	1,25
Utu Ion-Drăgăș, Mitelea Ion	SNMS investigations of thermally sprayed coatings	MATERIALS TESTING 57(3)	2015	267-272	2	0,573	14,33
Hulka Iosif, Utu Ion Drăgăș, Serban Viorel Aurel, Vuoristo Petri, Niemi Kari	Properties and microstructure of HVOF thermally sprayed carbide based coatings	ADVANCED MATERIALS AND STRUCTURES V, Solid State Phenomena 216	2014	261-266	5	0,1	1,00
Utu Ion-Drăgăș, Serban Viorel Aurel	Evaluation of the thermally sprayed cermet coatings adhesion by scratch test	Key Engineering Materials, Vol. 601	2014	37-40	2	0,1	2,50
Serban Viorel-Aurel, Utu Ion-Drăgăș, Marginean Gabriela	Corrosion and sliding wear behavior of Cr ₃ Cr ₂ -NiCr coatings alloyed by electron beam treatment	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Vol. 8, Iss. 1-2	2014	153-157	3	0,452	7,53
Mitelea Ion, Ochian Daniel, Utu Ion-Drăgăș	Microstructural Investigations of Electron Beam Welded Joints of Continuous Saw Blades	MATERIALS TESTING Vol. 55, Iss. 11-12	2013	885-891	3	0,573	9,55
Serban Viorel-Aurel, Hulka Iosif, Utu Ion-Drăgăș, Vuoristo Petri, Niemi Kari	WEAR AND CORROSION BEHAVIOUR OF HVOF AND HVOF DEPOSITED Cr ₃ C ₂ -NiCr COATINGS	METALURGIA INTERNATIONAL 18(2)	2013	51-56	5	0,134	1,34

Utu Ion-Dragos, Hulka Iosif, Serban Viorel-Aurel	Microstructure and Abrasion Wear Resistance of Thermally Sprayed Cermet Coatings	MATERIALS TESTING 55 (1)	2013	47-50/4	3	0,573	9,55
Marginean Gabriela, Utu Ion-Dragos	Cyclic oxidation behaviour of different treated CoNiCrAlY coatings	APPLIED SURFACE SCIENCE Vol. 258, Iss. 20	2012	8307-8311	2	5,155	128,88
Serban Viorel-Aurel, Utu Ion-Dragos, Hulka Iosif, Opris Carmen	Sliding wear behavior of different HVOF sprayed cermet coatings	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 6(7-8)	2012	746-749	4	0,452	5,65
Rosu Radu, Serban Viorel Aurel, Bucur Alexandra, Utu Ion-Dragos	Deposition of titanium nitride and hydroxyapatite based biocompatible composite by reactive plasma spraying	APPLIED SURFACE SCIENCE Vol. 258, Iss. 8	2012	3871-3876	4	5,155	64,44
Groza Cosmin, Mitelea Ion, Utu Ion-Dragos, Craciunescu Corneliu Marius	MELTED ZONE MORPHOLOGY BY LASER WELDING OF TI-6AL-4V WITH X5CRNI18-10	PROCEEDINGS OF 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012)	2012	690-696	4	0,1	1,25
Secosan Ioan Florin, Utu Ion-Dragos, Serban Viorel-Aurel, Brandl Waltraut	Wear Resistance of Internal WC-CoCr Coatings Produced by High Velocity Oxy-Fuel Spraying	ADVANCED MATERIALS AND STRUCTURES IV, Solid State Phenomena 188	2012	416-421	4	0,1	1,25
Utu Ion Dragos, Serban Viorel-Aurel	OPTIMIZATION OF THE EB-REMELTING PARAMETERS ON THE OXIDATION BEHAVIOR OF MCrAlY SPRAYED COATINGS	International Conference ModTech Proceedings	2012	1013-1016	2	0,1	2,50
Melcioiu Georgiana, Serban Viorel-Aurel, Codrean Cosmin, Utu Ion-Dragos, Locovei Cosmin	OBTAINING AND CHARACTERIZATION OF NANOCRYSTALLINE ALLOYS FOR LEAD-FREE SOLDERING OF ELECTRONIC COMPONENTS	NANOCON 2012, 4TH INTERNATIONAL CONFERENCE	2012	18-22	5	0,1	1,00

Hulka Iosif, Serban Viorel Aurel, Utu Dragos, Koivuluoto Heli, Vuoristo, P Petri, Niemi Kari	WEAR AND CORROSION BEHAVIOUR OF HVOF COATINGS ENGINEERED FROM CONVENTIONAL WC-CO-CR AND CONVENTIONAL WC-CO-CR ADDED NANOSTRUCTURED WC-CO POWDERS	NANOCON 2012, 4TH INTERNATIONAL CONFERENCE	2012	322-327	6	0,1	0,83
Utu Ion-Dragos, Mitelea Ion, Ochian Daniel, Burca Mircea	CONTRIBUTIONS ON MIG/MAG WELDING OF BIMETALLIC ENDLESS SAW BLADES	NANOCON 2012, 4TH INTERNATIONAL CONFERENCE	2012	440-445	4	0,1	1,25
Utu Ion-Dragos, Hulka Iosif, Serban Viorel-Aurel, Filipescu Hannelore	CORROSION PROPERTIES OF CERMET COATINGS SPRAYED BY HIGH-VELOCITY OXYGEN-FUEL	NANOCON 2012, 4TH INTERNATIONAL CONFERENCE	2012	520-525	4	0,1	1,25
Utu Ion-Dragos, Kellenberger Andrea, Rosu Radu Alexandru, Serban Viorel Aurel	CORROSION AND SLIDING WEAR BEHAVIOR OF HIGH VELOCITY OXYGEN FUEL SPRAYED WC-Co COATINGS	11TH INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC GEOCONFERENCE (SGEM 2011), VOL II	2011	703-708	4	0,1	1,25
Rosu Radu, Serban Viorel Aurel, Utu Ion Dragos, Popescu Mihaela, Bucur Alexandra	STRUCTURAL AND MECHANICAL CHARACTERIZATION OF TITANIUM BIOCOMPATIBLE LAYERS DEPOSITED BY HVOF THERMAL SPRAYING METHOD	11TH INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC GEOCONFERENCE (SGEM 2011), VOL II	2011	739-744	5	0,1	1,00
Mitelea Ion, Ochian Daniel, Burca Mircea, Utu Ion Dragos	TIG WELDING OPPORTUNITIES OF BIMETALLIC ENDLESS SAW BLADES	METAL 2011: 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS	2011	607-613	4	0,1	1,25
Mitelea Ion, Schinle Dieter, Craciunescu Marius,Utu Ion Dragos	MODELING OF CONNECTING STRUCTURE FOR PIPE JOINING WITH APPLICATION TO FE-MN-SI SHAPE MEMORY ALLOYS SLEEVES	METAL 2011: 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS	2011	639-643	4	0,1	1,25

Rosu Radu, Serban Viorel Aurel, Utu Ion Dragos, Locovei Cosmin, Sfirloaga Paula	CHARACTERISATION OF THE TITANIUM-HYDROXYAPATITE BIOCOMPATIBLE COMPOSITE LAYERS DEPOSITED BY HVOF THERMAL SPRAYING METHOD	METAL 2011: 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS	2011	711-716	5	0,1	1,00
Utu Ion-Dragos, Marginean Gabriela, Opris Carmen, Serban Viorel-Aurel	CORROSION AND SLIDING WEAR BEHAVIOR OF CONVENTIONAL AND NANOSTRUCTURED WC-Co COATINGS	METALURGIA INTERNATIONAL16(5)	2011	21-24	4	0,134	1,68
Magda Aurelian, Codrean, Cosmin, Utu Ion-Dragos	GALVANIZED SHEET METAL WELDING USING THE COLD METAL TRANSFER PROCESS	MODTECH 2011: NEW FACE OF T.M.C.R., VOL I AND II, International Conference ModTech Proceedings	2011	33-36	3	0,1	1,67
Rosu Radu Alexandru, Serban Viorel Aurel, Tsakiris Violeta, Utu Dragos, Ibolyka Bran, Hulka Iosif	CHARACTERIZATION OF TITANIUM NITRIDE LAYERS OBTAINED BY HVOF THERMAL SPRAYING METHOD	MODTECH 2011: NEW FACE OF T.M.C.R., VOL I AND II, International Conference ModTech Proceedings	2011	925-928	6	0,1	0,83
Serban Viorel-Aurel, Buzdugan Dragos, Codrean Cosmin, Utu Ion Dragos	TECHNOLOGY OF OBTAINING BULK NANOCRYSTALLINE ALLOYS BY DEVITRIFICATION OF Fe-Cr-Ga-P-Si-C BULK AMORPHOUS ALLOY	MODTECH 2011: NEW FACE OF T.M.C.R., VOL I AND II, International Conference ModTech Proceedings	2011	997-1000	4	0,1	1,25
Serban Viorel-Aurel, Marginean Gabriela, Utu Ion Dragos	THE EFFECT OF ELECTRON BEAM REMELTING ON THE RESIDUAL STRESS CHARACTERISTICS OF MCrAlY COATINGS	MODTECH 2011: NEW FACE OF T.M.C.R., VOL I AND II, International Conference ModTech Proceedings	2011	1129-1132	3	0,1	1,67
Marginean Gabriela, Utu Ion-Dragos	Microstructure refinement and alloying of WC-CoCr coatings by electron beam treatment	SURFACE & COATINGS TECHNOLOGY 205(7)	2010	1985-1989	2	3,192	79,80
Serban Viorel-Aurel, Codrean Cosmin, Buzdugan Dragos, Utu Ion-Dragos	Formation of ferromagnetic bulk amorphous Fe70Cr6Ga4P12Si5C3 alloys	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 4(7),	2010	934-938	4	0,452	5,65

Mitelea Ion, Bordeasu Ilare, Dimian Elena, Utu Ion-Dragos	CAVITATION RESISTANCE COATINGS DEPOSITED ON TITANIUM ALLOYS SUBSTRATES BY PLASMA SPRAYING AND ELECTRON BEAM REMELTING	METAL 2010: 19TH INTERNATIONAL METALLURGICAL AND MATERIALS CONFERENCE	2010	945-950	4	0,1	1,25
Serban Viorel Aurel, Malaescu I., Ercuta Aurel, Marin C.N., Stefu N., Opris Carmen, Codrean Cosmin, Utu Ion-Dragos	Magnetic Properties of the WC-Co Cermet Powders	TIM-09: PROCEEDINGS OF THE PHYSICS CONFERENCE	2009	113-117	8	0,1	0,63
Serban Viorel Aurel, Codrean Cosmin, Utu Ion-Dragos, Ercuta Aurel	Fe-based Bulk Metallic Glasses Used for Magnetic Shielding	Journal of Physics Conference Series 144	2009		4	0,1	1,25
Serban Viorel Aurel, Codrean Cosmin, Utu Ion-Dragos, Opris Carmen	Amorphous alloys for brazing copper based alloys	Journal of Physics Conference Series 144	2009		4	0,1	1,25
Serban Viorel Aurel, Codrean Cosmin, Opris Carmen, Utu Ion-Dragos, Lita Marin	The activation energy and kinetic of the nanocrystallization process of Al(85) Ni(9) Nd(4)Co(2) amorphous alloy	Proceedings of SPIE-The International Society for Optical Engineering 7297	2009		5	0,1	1,00
Serban Viorel-Aurel, Codrean Cosmin, Utu Ion Dragos	Bulk amorphous soft magnetic iron based alloy with mechanical strength and corrosion resistance	Key Engineering Materials 399	2009	37-42	3	0,1	1,67
Mitelea Ion, Utu Ion-Dragos, Pogan Calin	Dilution phenomenon during coating of titanium alloys by Plasma Transferred Arc (PTA) process	VDI BERICHTE 2028	2008	337-344	3	0,1	1,67
Mitelea Ion, Stefan Dragos, Utu Ion-Dragos	Investigations on the pulsed MG/MAG welding of dissimilar austenitic-ferritic steels (W7335-X10CrNiTi18.9)	VDI BERICHTE 2028	2008	383-390	3	0,1	1,67

Brandl Waltraut, Marginean, Marginean Nicoale, Chrlia Valentin, Utu Ion-Dragos	Prevention of metal dusting on Ni-based alloys by MCrAlY coatings	CORROSION SCIENCE 49(10)	2007	3765-3771	5	6,355	63,55
Utu Dragos, Marginean Gabriela, Waltraut Brandl, Cartis Ioan	Improvement of the oxidation behaviour of electron beam remelted MCrAlY coatings	Solid State Sciences 7(4)	2005	459-464	4	2,155	26,94
Utu Ion Dragos, Marginean Gabriela, Pogan Calin, Brandl Waltraut, Serban Viorel Aurel	Improvement of the wear resistance of titanium alloyed with boron nitride by electron beam irradiation	SURFACE & COATINGS TECHNOLOGY 201 (14)	2007	6387-6391	5	3,192	31,92
Utu Ion Dragos, Brandl Waltraut, Marginean Gabriela, Cartis Ioan, Serban Viorel Aurel	Morphology and phase modification of HVOF-sprayed MCrAlY-coatings remelted by electron beam irradiation	VACUUM 77(4)	2005	451-455	5	2,515	25,15
Brandl Waltraut, Marginean, Maghet Dora, Utu Ion-Dragos	Effects of specimen treatment and surface preparation on the isothermal oxidation behaviour of the HVOF-sprayed MCrAlY coatings	SURFACE & COATINGS TECHNOLOGY 188	2004	20-26	4	3,192	39,90
Total							650,16

Activitatea de cercetare (A2)

2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte Baze de Date Internaționale [BDI]

Justificare:**Activitatea de cercetare (A2) - Articole in reviste si volume indexate BDI**

Subcat.	Autorii	Titlul	Revista, nr. , vol.	Anul	Nr. Pagini	Nr. autori	Punctaj
	Vasiliu, Roxana, Utu Ion Dragos, Porojan L.	Evaluation of Different pH Solutions on the Mechanical Behaviour of Two Hot Pressed Dental Ceramics	IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1	2018	1-7	3	1,33
	Craciun Andrei L., Pinca-Bretotean Camelia., Utu Ion Dragos, Josan Ana	Experimental Analysis of Tribological Behaviour of Organic Composites Materials	IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1	2018	1-6	4	1,00
	Simon Natanael, Mitelea Ion, Burca Mircea, Utu Ion Dragos	The Particularities of the CMT Braze-Welding Process between Ferritic Stainless Steel - Magnesium Alloy	IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1	2018	1-7	4	1,00
	Riemschneider Eduard, Bordeasu Ilare, Mitelea Ion, Utu Ion Dragos	Analysis of Cavitation Erosion Resistance of Grey Cast Iron EN-GJL-200 by the Surface Induction Hardening	IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1	2018	1-6	4	1,00
	Lucian C.P, Mitelea Ion, Burcă Mircea, Utu Ion Dragos	Mechanical Behaviour of MAG Pulsed Welded Joints from 6082 T6 Aluminium Alloy	IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1	2018	1-6	4	1,00
	Szabo Alexandru, Utu Ion Dragos, Hulka Iosif, Bordeasu Ilare, Mitelea Ion	Microstructure and Wear Behaviour of Ti Reinforced HVOF Coating	IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1	2018	1-4	5	0,80

Hulka Iosif, Utu Ion-Dragos, Serban Viorel-Aurel, Vuoristo Petri, Niemi Kari, Koivulouto Heli	Properties and microstructure of HVOF thermally sprayed carbide based coatings	Solid State Phenomena 216	2014	261-266	6	0,67
Iosif HULKA, Dragoş UȚU, Viorel-Aurel ȘERBAN	MICRO-SCALE SLIDING WEAR BEHAVIOR OF HVOF SPRAYED WC-Co (Cr)	Annals of the Faculty of Engineering Hunedoara- International Journal of Engineering, tome IX, Fascicule	2011	61-64	3	1,33
Serban Viorel-Aurel, Codrean Cosmin, Utu Ion-Dragos, Hulka Iosif	Obtaining of high performance WC-CoCr cermet coatings. Alternative ecological spraying methods at reduced power levels	Sel. Topics in Energy, Environ., Sustainable Dev. and Landscaping - 6th WSEAS Int. Conf. on Energy, Environ., Ecosystems and Sustainable Dev., EEESD'10, 3rd WSEAS Int. Conf. on Landsc. Archit., LA'10	2010	188-193	4	1,00
Serban Viorel-Aurel, Codrean Cosmin, Utu Ion-Dragos, Buzdugan Dragos	Bulk amorphous metal products - Technological solutions for obtaining of miniaturized components	Sel. Topics in Energy, Environ., Sustainable Dev. and Landscaping - 6th WSEAS Int. Conf. on Energy, Environ., Ecosystems and Sustainable Dev., EEESD'10, 3rd WSEAS Int. Conf. on Landsc. Archit., LA'11	2010	170-175	4	1,00
Serban Viorel-Aurel, Codrean Cosmin, Utu Ion-Dragos, Stoian Cristian	Technological solutions to reduce energy consumption by obtaining of advanced brazing alloys	Sel. Topics in Energy, Environ., Sustainable Dev. and Landscaping - 6th WSEAS Int. Conf. on Energy, Environ., Ecosystems and Sustainable Dev., EEESD'10, 3rd WSEAS Int. Conf. on Landsc. Archit., LA'12	2010	176-181	4	1,00
Buzdugan Dragos, Codrean Cosmin, Serban, Viorel Aurel, Utu Ion-Dragos	Obtaining ferromagnetic bulk nanocrystalline alloys with high mechanical strength	Annals of DAAAM for 2010 and 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"	2010	1455-1456	4	1,00

Utu Ion Dragos, Marginean Gabriela, Viorel-Aurel Serban, Codrean Cosmin	Corrosion behavior of laser remelted CoNiCrAlY based composite coatings	Engineering 02(05)	2010	322-327	4	1,00
Marginean Gabriela, Brandl Waltraut, Maghet Dora, Utu, Dragos	Alumina scale formation during oxidation of HVOF sprayed MCrAlY coatings	Journal of Corrosion Science and Engineering 6	2003	10p	4	1,00

Total 14,13

Activitatea de cercetare (A2)	
2.3	Brevete de inventie
2.3.1	Internationale (Triadic; Europatent)
2.3.2	Nationale (sa iau in calcul numarul de autori nationali)

Justificare:

Activitatea de cercetare (A2)

Subcat.	Autorii	Titlul brevetului	Nr. brevetului	Anul	Nr. autori
2.3.1					

Activitatea de cercetare (A2)

Subcat.	Autorii	Titlul brevetului	Nr. brevetului	Anul	Nr. autori	Punctaj
2.3.2	SERBAN Viorel Aurel, CODREAN Cosmin, BUZDUGAN Dragos, UTU Ion Dragos	TECHNOLOGY FOR MAKING SLEEVE-SHAPED MAGNETIC SHIELDS OF SOLID AMORPHOUS ALLOYS	RO126021-A0 ; RO126021-B1	2011	4	6,25
					Total	6,25

Activitatea de cercetare (A2)		
2.4	Granturi/proiecte castigate prin competitie	
2.4.1	Director/responsabil	
	2.4.1.1	Internationale
	2.4.1.2	Nationale
2.4.2	Membru in echipa	
	2.4.2.1	Internationale
	2.4.2.2	Nationale

Justificare:

Activitatea de cercetare (A2) - 2.4.1

Subcat.	Membru	Titlul grantului	Nr. Contract	Programul	Anii (perioada)	Nr. ani desfășurare	Punctaj
2.4.1.1	Utu Ion-Dragos	Pole of collaboration in New Functional Alloys (POCAL)	MIS-ETC:1328	Program de colaborarea transfrontaliera	2015-2016	2	8

Activitatea de cercetare (A2)-2.4.1

Subcat.	Director grant	Titlul grantului	Nr. Contract	Programul	Anii (perioada)	Nr. ani desfășurare	punctaj
2.4.1.2	Utu Ion-Dragos	Cercetari privind cresterea performantelor straturilor MCrAlY depuse prin metoda HVOF si modificate prin retopire cu laser	46GR/11.05.2007	AT	2007	1	5

Utu Ion-Dragos	Cercetari privind cresterea performantelor straturilor MCrAlY depuse prin metoda HVOF si modificate prin retopire cu laser	98GR/11.06.2008	AT	2008	1	5
Utu Ion-Dragos	Imbunatatirea rezistentei la uzare a titanului prin retopirea cu fascicul de electroni a straturilor depuse prin pulverizare	11/30.08.2013	IDEI	2013-2016	4	20
Total						30

Activitatea de cercetare (A2)-2.4.2

Subcat.	Membru	Titlul grantului	Nr. Contract	Programul	Anii (perioada)	Nr. ani desfășurare
2.4.2.1						

Activitatea de cercetare (A2)-2.4.2

Subcat.	Membru	Titlul grantului	Nr. Contract	Programul	Anii (perioada)	Nr. ani desfășurare	Punctaj
2.4.2.2	Utu Ion-Dragos	Microstraturi plurifunctionalizate pentru acoperirea aliajelor de titan prin tehnologii avansate	266/2006	CEEX	2006-2008	3	6
	Utu Ion-Dragos	Tehnologii inovative de obținere prin pulverizare termică a microstraturilor compozite de tip cermet anticoroziune și antiuzare	71-050/2007	Parteneriate	2007-2010	4	8
	Utu Ion-Dragos	Aliaje feromagnetice amorfe și nanocristaline masive cu aplicabilitate pentru realizarea ecranelor magnetice	66/01.10.2007	IDEI	2007-2010	4	8
	Utu Ion-Dragos	Sistem integrat pentru managementul riscurilor la echipamente și instalații din domeniul energetic	22-096/2008	Parteneriate	2008-2011	4	8
	Utu Ion-Dragos	Producerea și caracterizarea aliajelor nanostructurate feromagnetice din familia Fe-Cr-(Nb, Mo)-P-Si-B	27668/2005	Grant CNCSIS	2005-2007	3	6
	Utu Ion-Dragos	Microsenzori și actuatori pentru sisteme micro-opto-electro-mecanice prin nanoingineria aliajelor cu memoria formei	255(408) / 2004	MATNANTECH	2004-2006	3	6

Total

42

Justificare:
Recunoasterea si impactul activitatii (A3)

Subcat.	Lucrarea citata				Lucrari care citeaza				Nr. autori	Punctaj
	Nr.crt.	Autorii	Titlul	Revista nr. sau vol. , an	Autorii	Titlul	Revista nr. sau vol., an	Fi		
	1	Utu I. D., Marginean, G	Effect of electron beam remelting on the characteristics of HVOF sprayed Al ₂ O ₃ -TiO ₂ coatings deposited on titanium substrate	COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS	Li, Hongzhan si altii	Effect of Diffusion Annealing Temperature on the Formation Process and Properties of a Carbon-Aluminum Composite Layer on Pure Titanium	MATERIALS	2,972	2	10
					Ghadami F, Aghdam, Aghdam, A. Sabour (Rouh)	Improvement of high velocity oxy-fuel spray coatings by thermal post-treatments: A critical review	THIN SOLID FILMS	1,888	2	7,5
					Wang, SP, Zhou, L, Li CJ , Li ZX, Li HZ	Morphology and Wear Resistance of Composite Coatings Formed on a TA2 Substrate Using Hot-Dip Aluminising and Micro-Arc Oxidation Technologies	MATERIALS	2,972	2	10
					Prasad CD, Joladarashi S, Ramesh MR, Srinath MS , Channabasappa BH	Microstructure and tribological behavior of flame sprayed and microwave fused CoMoCrSi/CoMoCrSi-Cr ₃ C ₂ coating	MATERIALS RESEARCH EXPRESS	1,449	2	7,5
					Dong TS, Zhou XK, Li GL, Liu L, Wang R	Microstructure and corrosive wear resistance of plasma sprayed Ni-based coatings after TIG remelting	MATERIALS RESEARCH EXPRESS	1,449	2	7,5
	2	Utu ID, Mitelea I., Urlan SD, Craciunescu CM	Transformation and Precipitation Reactions by Metal Active Gas Pulsed Welded Joints from X2CrNiMoN22-5-3 Duplex Stainless Steels	MATERIALS	Zhou MR	Effect of laser-MIG hybrid welding on microstructure and properties of seismic steel plate for buildings	RESULTS IN PHYSICS	3,042	4	5

				Mohan DG, Gopi S, Rajasekar V	Mechanical and Corrosion-Resistant Properties of Hybrid-Welded Stainless Steel	MATERIALS PERFORMANCE	0,153	4	1,25
				Hu Y si altii	Microstructure, Pitting Corrosion Resistance and Impact Toughness of Duplex Stainless Steel Underwater Dry Hyperbaric Flux-Cored Arc Welds	MATERIALS	2,972	4	5
				Swierczynska A si altii	Corrosion behavior of hydrogen charged super duplex stainless steel welded joints	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	1,458	4	3,75
				Mohammed GR si altii	Effects of Heat Input on Microstructure, Corrosion and Mechanical Characteristics of Welded Austenitic and Duplex Stainless Steels: A Review	METALS	2,259	4	5
3,	Utu ID, Marginean G, Hulka I, Serban VA, Cristea D	Properties of the thermally sprayed Al ₂ O ₃ -TiO ₂ coatings deposited on titanium substrate	INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS	Wu, Zhilin si altii	Microstructure and mechanical properties of Ti-6Al-4V prepared by nickel preplating and electron beam surface remelting	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	4,178	5	4
				Wang SP si altii	Morphology and Wear Resistance of Composite Coatings Formed on a TA2 Substrate Using Hot-Dip Aluminising and Micro-Arc Oxidation Technologies	MATERIALS	2,972	5	4
				Nithin HS si altii	Hot Corrosion Behaviour of Refractory and Rare Earth Oxide Reinforced CoCrAlY APS Coatings at 700 degrees C	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	1,176	5	3

				Du Yaxiong si altii	Effect of cobalt content on high-temperature tribological properties of TiC-Co coatings	CERAMICS INTERNATIONAL	3,45	5	4
				Lian YS si altii	Preparation and property characterization of WS ₂ coatings deposited on micro-nano textured surfaces of cemented carbide at different WS ₂ target currents	INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS	2,794	5	4
				Iwaszko J. si altii	Surface modification of AZ91 magnesium alloy using GTAW technology	BULLETIN OF THE POLISH ACADEMY OF SCIENCES-TECHNICAL SCIENCES	1,277	5	3
				Luo H si altii	Alternant phase distribution and wear mechanical properties of an Al ₂ O ₃ -40 wt%TiO ₂ composite coating	CERAMICS INTERNATIONAL	3,45	5	4
				Restrepo E. si altii	Influence of residual stress on adhesion of Al ₂ O ₃ -40% TiO ₂ coatings fabricated by flame sprayed	BOLETIN DE LA SOCIEDAD ESPANOLA DE CERAMICA Y VIDRIO	1,633	5	3
				Szkodo, M si altii	Effect of plasma sprayed and laser re-melted Al ₂ O ₃ coatings on hardness and wear properties of stainless steel	CERAMICS INTERNATIONAL	3,45	5	4

4	Marginean G, Utu, D	Cyclic oxidation behaviour of different treated CoNiCrAlY coatings	APPLIED SURFACE SCIENCE	Jonca, J si altii	Oxidation behaviour of a CoNiCrAlY/h-BN based abradable coating	CORROSION SCIENCE	6,355	2	15
				Chen, H si altii	Bioxidant corrosion behaviour of CoNiCrAlY coated IN738 at 1100 degrees C	CORROSION SCIENCE	6,355	2	15
				Falcon, JCP si altii	Microstructure assessment at high temperature in NiCoCrAlY overlay coating obtained by laser metal deposition	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY- JMR&T	3,327	2	10
				Yang, YF si altii	Modification of NiCoCrAlY with Pt: Part I. Effect of Pt depositing location and cyclic oxidation performance	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	5,04	2	15
				Ghasemi, R si altii	The effect of the Re-Ni diffusion barrier on the adhesion strength and thermal shock resistance of the NiCoCrAlY coating	SURFACE & COATINGS TECHNOLOGY	3,192	2	10
				Pereira, J. C. si altii	Mechanical and microstructural characterization of MCrAlY coatings produced by laser cladding: The influence of the Ni, Co and Al content	SURFACE & COATINGS TECHNOLOGY	3,192	2	10

				Krajnakova, P si altii	INFLUENCE OF MULTIPLE ELECTRON-BEAM REMELTINGS ON THE CHARACTERISTICS OF HVOF AND CGDS SPRAYED CoNiCrAlY COATINGS	MATERIALI IN TEHNOLOGIJE	0,714	2	5
				Deng, SJ si altii	Surface Microstructure and High Temperature Oxidation Resistance of Thermal Sprayed NiCoCrAlY Bond-Coat Modified by Cathode Plasma Electrolysis	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	5,04	2	15
				Bobzin, K. si altii	High-rate deposition of thick (Cr,Al)ON coatings by high speed physical vapor deposition	SURFACE & COATINGS TECHNOLOGY	3,192	2	10
				Xu, Ya-Xin si altii	Formation of Al ₂ O ₃ diffusion barrier in cold-sprayed NiCoCrAlY/Ni multi-layered coatings on 304SS substrate	SURFACE & COATINGS TECHNOLOGY	3,192	2	10
				Sadeghimeresht, E si altii	Microstructural and electrochemical characterization of Ni-based bi-layer coatings produced by the HVOF process	SURFACE & COATINGS TECHNOLOGY	3,192	2	10
				Brandolt, CS si altii	Corrosion behavior of nickel and cobalt coatings obtained by high-velocity oxy-fuel (HVOF) thermal spraying on API 5CT P110 steel	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	1,458	2	7,5

				Wang, JL si altii	The effect of yttrium addition on oxidation of a sputtered nanocrystalline coating with moderate amount of tantalum in composition	APPLIED SURFACE SCIENCE	5,155	2	15
				Liu, WY si altii	Hot corrosion behavior of a centimeter Fe-based amorphous composite coating prepared by laser cladding in molten Na ₂ SO ₄ + K ₂ SO ₄ salts	SURFACE & COATINGS TECHNOLOGY	3,192	2	10
				Pereira, JC si altii	High temperature oxidation behavior of laser cladding MCrAlY coatings on austenitic stainless steel	SURFACE & COATINGS TECHNOLOGY	3,192	2	10
				Pereira, J si altii	Tribology and high temperature friction wear behavior of MCrAlY laser cladding coatings on stainless steel	WEAR	2,95	2	10
				Xu, Y. si altii	High temperature oxidation behaviour of Al ₂ O ₃ /Al composite coating on gamma-TiAl	SURFACE ENGINEERING	2,229	2	10
				Cai, J si altii	Isothermal oxidation behaviour of thermal barrier coatings with CoCrAlY bond coat irradiated by high-current pulsed electron beam	APPLIED SURFACE SCIENCE	5,155	2	15

				Brandolt, CD si altii	Niobium and Niobium-iron Coatings on API 5LX 70 Steel Applied with HVOF	MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS	1,104	2	7,5
				Kaplin, Cory si altii	The Effect of Grain Size on the Cyclic Oxidation of NiCoCrAlY	JOM	2,305	2	10
				Zhu, LJ si altii	Comparison of the cyclic oxidation behavior of a low expansion Ni + CrAlYSiN nanocomposite and a NiCrAlYSi coating	CORROSION SCIENCE	6,355	2	15
				Xu, Y si altii	Interdiffusion performance and oxidation behaviours of NiCrAlY/Al coatings on gamma-TiAl	SURFACE ENGINEERING	2,229	2	10
				Daroonparvar, M si altii	Effect of Y2O3 stabilized ZrO2 coating with tri-model structure on bi-layered thermally grown oxide evolution in nano thermal barrier coating systems at elevated temperatures	JOURNAL OF RARE EARTHS	2,846	2	10
				Dai PC si altii	The effect of silicon on the oxidation behavior of NiAlHf coating system	APPLIED SURFACE SCIENCE	5,155	2	15

				Zhu, LJ si altii	Hot corrosion behaviour of a Ni plus CrAlYSiN composite coating in Na ₂ SO ₄ -25 wt.% NaCl melt	APPLIED SURFACE SCIENCE	5,155	2	15
				Verdian, MM si altii	Characterization and electrochemical properties of Ni(Si)/Ni ₅ Si ₂ multiphase coatings prepared by HVOF spraying	APPLIED SURFACE SCIENCE	5,155	2	15
5	Marginean G, Utu, D	Microstructure refinement and alloying of WC-CoCr coatings by electron beam treatment	SURFACE & COATINGS TECHNOLOGY	Qin, EW si altii	Optimized Microstructure and Properties of Cr ₃ C ₂ -NiCr Cermet Coating by HVOF/Laser Hybrid Processing	JOURNAL OF THERMAL SPRAY TECHNOLOGY	2,129	2	10
				Dong, TS si altii	Microstructure and Wear Resistance of FeCrBSi Plasma-Sprayed Coating Remelted by Gas Tungsten Arc Welding Process	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1,476	2	7,5
				Ye, ZB si altii	Influence of Heat Treatment on Fracture Toughness and Wear Resistance of Nicral-ZrO ₂ Multilayered Thermal Barrier Coating	HIGH TEMPERATURE MATERIALS AND PROCESSES	0,427	2	2,5
6	Rosu RA, Serban VA., Bucur Al.,Utu D.	Deposition of titanium nitride and hydroxyapatite-based biocompatible composite by reactive plasma spraying	APPLIED SURFACE SCIENCE	Qi, JW si altii	Effect of transition layer on the performance of hydroxyapatite/titanium nitride coating developed on Ti-6Al-4V alloy by magnetron sputtering	CERAMICS INTERNATIONAL	3,45	4	5
				Su, YY si altii	Mechanical properties of the supersonic atmospheric plasma sprayed Ca-P coating post-processed by a microwave-hydrothermal method	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	4,959	4	5
				Su, YY si altii	Effect of the hydroxyapatite particle size on the properties of sprayed coating	SURFACE & COATINGS TECHNOLOGY	3,192	4	5

				Fathi, J si altii	Plasma Spray Deposition Enhancement of Titanium Nitride Layer Using Nitrogen-Contained Plasma Irradiation of Titanium Substrate as a Pre-spraying Method	JOURNAL OF THERMAL SPRAY TECHNOLOGY	2,129	4	5
				Huang, F si altii	Microscopic characteristics and properties of titaniferous compound reinforced nickel-based wear-resisting layer via in situ precipitation of plasma spray welding	CERAMICS INTERNATIONAL	3,45	4	5
				Su, YY si altii	Effect of microwave heating time on bonding strength and corrosion resistance of Ca-P composite layers for carbon/carbon composites	JOURNAL OF ALLOYS AND COMPOUNDS	4,175	4	5
				Wang, WQ si altii	Microstructures and Properties of Plasma Sprayed Ni Based Coatings Reinforced by TiN/C1-xNxTi Generated from In-Situ Solid-Gas Reaction	MATERIALS	2,972	4	5
				Xu, HY si altii	MICROSTRUCTURES AND PROPERTIES OF Ni-BASED WEAR RESISTANT LAYERS REINFORCED BY TiC GENERATED FROM IN SITU PLASMA SPRAY WELDING	ACTA METALLURGICA SINICA	0,758	4	2,5
				Wang, T si altii	Synergistic effects of bioactive ions and micro/nano-topography on the attachment, proliferation and differentiation of murine osteoblasts (MC3T3)	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE	2,467	4	5
				Khanmohammadi, H si altii	Preparation of PEO coating on Ti6Al4V in different electrolytes and evaluation of its properties	SURFACE ENGINEERING	2,229	4	5

				Santecchia, E si altii	Wear resistance investigation of titanium nitride-based coatings	CERAMICS INTERNATIONAL	3,45	4	5
				Kaliaraj, GS si altii	Studies of calcium-precipitating oral bacterial adhesion on TiN, TiO ₂ single layer, and TiN/TiO ₂ multilayer-coated 316L SS	JOURNAL OF MATERIALS SCIENCE	2,993	4	5
				Zhou, R si altii	Bioactive coating with hierarchical double porous structure on titanium surface formed by two-step microarc oxidation treatment	SURFACE & COATINGS TECHNOLOGY	3,192	4	5
				Wei, DQ si altii	Microarc oxidized TiO ₂ based ceramic coatings combined with cefazolin sodium/chitosan composited drug film on porous titanium for biomedical applications	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	4,959	4	5
				Mohammed, HI si altii	Calcium phosphate coating on Ti6Al4V by autocatalytic route	BIOINSPIRED BIOMIMETIC AND NANOBIMATERIALS	0,973	4	2,5
7	Utu D., Marginean, G., Pogan C., Brandl W., Serban V.A.	Improvement of the wear resistance of titanium alloyed with boron nitride by electron beam irradiation	SURFACE & COATINGS TECHNOLOGY	Weglowski, MS si altii	Electron beam welding - Techniques and trends - Review	VACUUM	2,067	5	4

				Liu, YF si altii	Microstructure and dry sliding wear behavior of plasma transferred arc clad Ti5Si3 reinforced intermetallic composite coatings	JOURNAL OF ALLOYS AND COMPOUNDS	3,779	5	4
				Aliofkhazraei, M si altii	Abrasive wear behaviour of Si3N4/TiO2 nanocomposite coatings fabricated by plasma electrolytic oxidation	SURFACE & COATINGS TECHNOLOGY	2,906	5	4
				Rastkar, AR	Surface transformation of Ti-45Al-2Nb-2Mn-1B titanium aluminide by electron beam melting	SURFACE & COATINGS TECHNOLOGY	2,906	5	4
				Nedeloni, L. si altii	Dry sliding wear research on C45 carbon steel, 41Cr4 alloyed steel and X3CrNi13-4 martensitic stainless steel	IOP Conference Series- Materials Science and Engineering	0	5	1
				Hengst, P	Improvement of the Load-Bearing Capacity of Thermal Spray Coatings in Combination with Electron Beam Profiling and Electron Beam Remelt-Bonding	HTM-JOURNAL OF HEAT TREATMENT AND MATERIALS	0	5	1
8	Utu D., Brandl W., Marginean G., Cartis I., Serban V.A.	Morphology and phase modification of HVOF-sprayed MCrAlY-coatings remelted by electron beam irradiation	VACUUM	Wang, YN si altii	INFLUENCE OF MgO+CeO2 ON THE MICROSTRUCTURE AND HARDNESS OF WC-Ni-BASED ALLOY COATING BY VACUUM MELTING	SURFACE REVIEW AND LETTERS	0,748	5	2
				Lv, P si altii	Microstructure and high temperature oxidation resistance of nickel based alloy GH4169 irradiated by high current pulsed electron beam	SURFACE & COATINGS TECHNOLOGY	3,192	5	4

				Ruiz-Luna, H si altii	Electrochemical Corrosion of HVOF-Sprayed NiCoCrAlY Coatings in CO ₂ -Saturated Brine	JOURNAL OF THERMAL SPRAY TECHNOLOGY	2,129	5	4
				Mohammadi, M si altii	Cyclic Oxidation and Hot Corrosion Behaviors of Gradient CoNiCrAlYSi Coatings Produced by HVOF and Diffusional Processes	OXIDATION OF METALS	1,805	5	3
				Sah, I si altii	Development and oxidation resistance evaluation of Al-rich surface layer on Alloy 617	SURFACE & COATINGS TECHNOLOGY	3,192	5	4
				He, J si altii	Morphology of sintered silicide coatings remelted by high frequency electron beam	SURFACE & COATINGS TECHNOLOGY	3,192	5	4
				Taheri, M si altii	Influence of HVOF process parameters on microstructure and bond strength of NiCrAlY coatings	SURFACE ENGINEERING	2,229	5	4
				Zhao, XB si altii	The effect of heat treatment on the electrochemical corrosion behavior of reactive plasma-sprayed TiN coatings	APPLIED SURFACE SCIENCE	5,155	5	6

				Sun, J si altii	Thermal Corrosion Behavior of NiCoCrAlY Coatings Prepared by Different Thermal Spraying Methods	ADVANCED STRUCTURAL MATERIALS	0,399	5	1
				Arif, AFM si altii	Laser melting of HVOF coating: effect of base material on residual stress formation	SURFACE ENGINEERING	2,229	5	4
				Bradai, MA	Microstructural investigation on bond coats in molybdenum and steel coatings for the renovation of mechanical pieces	CANADIAN JOURNAL OF PHYSICS	1,016	5	2
9	Brandl W., Marginean G., Maghet D., Utu D.	Effects of specimen treatment and surface preparation on the isothermal oxidation behaviour of the HVOF-sprayed MCrAlY coatings	SURFACE & COATINGS TECHNOLOGY	Adesina, AY si altii	Characterization and evaluation of A1CrN coated FSW tool: A preliminary study	JOURNAL OF MANUFACTURING PROCESSES	3,462	4	5
				Ruiz-Luna, H si altii	Electrochemical Corrosion of HVOF-Sprayed NiCoCrAlY Coatings in CO ₂ -Saturated Brine	JOURNAL OF THERMAL SPRAY TECHNOLOGY	2,129	4	5
				Naeimi, F si altii	Effect of Sandblasting Process on the Oxidation Behavior of HVOF MCrAlY Coatings	OXIDATION OF METALS	1,805	4	3,75

				Liu, WY si altii	Hot corrosion behavior of a centimeter Fe-based amorphous composite coating prepared by laser cladding in molten Na ₂ SO ₄ + K ₂ SO ₄ salts	SURFACE & COATINGS TECHNOLOGY	3,192	4	5
				Yuan, K si altii	Some aspects of elemental behaviour in HVOF MCrAlY coatings in high-temperature oxidation	SURFACE & COATINGS TECHNOLOGY	3,192	4	5
				Xanthopoulou, G si altii	Ni-Al and NiO-Al Composite Coatings by Combustion-Assisted Flame Spraying	COATINGS	2,33	4	5
				Kaplin, C si altii	The effect of grain size on the oxidation of NiCoCrAlY	APPLIED SURFACE SCIENCE	5,155	4	7,5
								Total	497,00

Recunoasterea si impactul activitatii (A3)	
3.3	Membru in colectivele de redactie sau comitete stiintifice ale revistelor si manifestarilor stiintifice,
3.3.1	ISI
3.3.2	BDI
3.3.3	Nationale si internationale neindexate

Justificare:

Recunoasterea si impactul activitatii (A3)

Subcat.	Autor	Revista / Manifestarea	Anul	Tara / Localitatea	Tip	Punctaj
3.3.1		Recenzor - Metals	2019		ISI	5
		Recenzor Surface and Coating Technology	2016		ISI	5
		Recenzor Applied Surface Science	2016		ISI	5
					Total	15

Recunoasterea si impactul activitatii (A3)

Subcat.	Autor	Revista / Manifestarea	Anul	Tara / Localitatea	Tip	Punctaj
3.3.2		7th International Conference on Advanced Materials and Structures AMS'18 - editor	2018	Timisoara	BDI	10

Recunoasterea si impactul activitatii (A3)

Subcat.	Autor	Revista / Manifestarea	Anul	Tara / Localitatea	Tip	Punctaj
3.3.3		Editor Buletinul Stiintific al UPT, Seria Mecanica	2011-2012	Timisoara	B	5

Fisa de centralizare a punctajului

Cadru didactic: **Conf.dr.ing. Utu Ion Dragos**

Indicatori specifici pentru domeniul **Ingineria Materialelor**

Domeniul activitatilor	Punctaj minim prof	Punctaj minim conf	Punctaj realizat
Activitati didactice si profesionale (A1)	60	30	146,83
Activitatea de cercetare (A2)	320	160	750,55
Recunoasterea si impactul activitatii (A3)	120	60	562
Total	500	250	1459,38