

## LIST OF PUBLICATIONS

### A) Publications considered by the candidate to be the most relevant:

1. **Nagy-György T.**, Moşoarcă M., Stoian V., Gergely J., Dan D., Retrofit of reinforced concrete shear walls with CFRP composites, fib Symposium - Keep Concrete Attractive, Budapest, Hungary, 2005, ISBN 963 420 838 X (BDI)
2. **Nagy-György T.**, Stoian V., Dan D., Dăescu C., Demeter I., Diaconu D., Dogariu A., Experimental assessment on shear strengthening of clay brick masonry walls using different techniques, PROHITECH, Rome, 2009, ISBN 978-0-415-55804-4, pp 1653-1658 (ISI)
3. Demeter I., **Nagy-György T.**, Stoian V., Dăescu C., Dan D., FRP Composites for Seismic Retrofitting of RC Wall Panels with Cut-Out Openings, First International Conference on Structures and Architecture (ICSA2010), Guimaraes, Portugal, 2010, ISBN 978-0-415-49249-2, pp 1902-1908 (ISI)
4. **Nagy-György T.**, Sas G., Dăescu C., Barros J.A.O., Stoian V., Experimental and numerical assessment of the effectiveness of FRP-based strengthening configurations for dapped-end RC beams, Engineering Structures 44 (2012) 291–303, ISSN: 0141-0296 (IF: 1.838/2014)
5. Dan D., **Nagy-György T.**, Stoian V., Fabian A., Demeter I., FRP Composites for Seismic Retrofitting of Steel-Concrete Shear Walls with Steel Encased Profiles, STESSA 2012, Santiago, Chile, 2012, ISBN 978-0-415-62105-2, pp1071-1076 (ISI)
6. **Nagy-György T.**, Demeter I., Floruț C., Dan D., Causes and required interventions on the rehabilitation process of large panel buildings in Romania, 2nd International Conference on Civil Engineering and Building Materials (CEBM 2012), November, Hong-Kong, 2012, ISBN 978-0-415-64342-9, pp 853-858 (BDI)
7. Floruț C., Stoian V., **Nagy-György T.**, Dan D., Diaconu D., Performance assessment of mixed CFRP retrofitting solution for RC slabs, 2nd International Conference on Structures and Architecture (ICSA2013), July 24-26, 2013, Guimaraes, Portugal, ISBN 978-041566195-9, pp. 727-732 (ISI)
8. Sabău C., Stoian D., Dan D., **Nagy-György T.**, Floruț C., Stoian V., Partial results of monitoring in a passive house, Journal of Applied Engineering Sciences, V1(16), Issue 1, 2013, ISSN 2247-3769, pp 107-111 (BDI)
9. Sas G., Dăescu C., Popescu C., **Nagy-György T.**, Numerical optimization of strengthening disturbed regions of dapped-end beams using NSM and EBR CFRP, Composites Part B: Engineering 67 (2014), 381-390, ISSN: 1359-8368 (IF: 2.983/2014)
10. Toduț C., Stoian V., Demeter I., **Nagy-György T.**, Dan D., Ungureanu V., Seismic Strengthening of a Precast Reinforced Concrete Wall Panel Using Combined NSM and CFRP-EBR Method, FRPRCS-11, June 26-28, 2013, Guimaraes, Portugal, ISBN 978-972-8692-84-1, pp 269-270

## B) PhD Thesis

Title, Year, no of pages

Utilizarea materialelor compozite polimerice la consolidarea elementelor din zidărie de cărămidă și beton armat (Using the FRP Composite Materials for Strengthening of Brick Masonry and Reinforced Concrete Elements), 2004, 256 pp

Attested by The Ministry of National Education, Order no. 5237 from 05.11.2004

## C) Contributions of the candidate

### Books

1. Stoian V., **Nagy-György T.**, Dan D., Gergely J., Dăescu C., Materiale compozite pentru construcții (Composite materials for constructions), Ed. Politehnica, Timișoara, ISBN 973-625-148-9, 2004, pg 315
2. **Nagy-György T.**, Materiale compozite polimerice pentru consolidarea elementelor din zidărie și beton (FRP composite materials for strengthening masonry and concrete elements), Ed. Politehnica, Timișoara, 2007, ISBN 978-973-625-445-1, pg 295
3. Stoian V., **Nagy-György T.**, Dan D., Gergely J., Dăescu C., Materiale compozite pentru construcții (Composite materials for constructions), Ed. Politehnica, Timișoara, ISBN 978-973-625-948-7, 2009, pg 315

### Chapters in books

1. **Nagy-György T.**, Stoian V., Gergely J., Dan D., Ch. II.3.2.5 Concrete and FRP / Reinforced concrete walls strengthened with CFRP composites, COST C12 – Improvement of Buildings Structural Quality by New Technologies (WG2), Final Scientific Report (WG2), A. A. Balkema Publishers, 2004, ISBN 04 1536 610 0
2. **Nagy-György T.**, Stoian V., Gergely J., Dan D., Ch. II.3.2.6 Masonry and FRP / Masonry walls retrofitted with composites, COST C12 – Improvement of Buildings Structural Quality by New Technologies (WG2), Final Scientific Report (WG2), A. A. Balkema Publishers, 2004, ISBN 04 1536 610 0
3. Dan D., **Nagy-György T.**, Stoian V., Moșoarcă M., Pavlou D. Experimental Study on Reinforced Concrete Shear Walls Retrofitted with CFRP Composites Computational & Experimental Analysis of Damaged Materials Transworld Research Network, Kerala, India, 2007, ISBN 987-81-7895-308-3
4. Gülay Altay Askar, ... , **Nagy-György T.**, ... , Ioannis Vayas, FP6 PROHITECH project: Volume 5: Seismic protection of historical buildings: calculation models, Earthquake Protection of Historical Buildings by Reversible Mixed Technologies, Polimetrica, 2012, ISBN 978-88-7699-177-6, pg 282
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6. Demeter I., **Nagy-György T.**, Strategy for providing the required structural safety level of reinforced concrete large panel walls with cut-out openings, Romanian-Finnish Seminar on Opportunities in Sustainably Retrofitting the Large Panel Reinforced Concrete Building Stock, January, 2013, Timisoara, Romania, Mirton, ISBN 978-973-638-537-7
7. Floruț C., Stoian V., **Nagy-György T.**, Structural strengthening/retrofitting of RC slab panels using CFRP composite materials, Romanian-Finnish Seminar on Opportunities in Sustainably Retrofitting the Large Panel Reinforced Concrete Building Stock, January, 2013, Timisoara, Romania, Mirton, ISBN 978-973-638-537-7
8. Köllő G., Gobesz F. Zs., **Nagy-György T.**, Romániai magyar építéstudományi szintézis (2002–2013), Magyar tudományosság Romániában 2002-2013 között, (Hungarian Scientism in Romania between 2002-2013 - Synthesis of Hungarian Civil Engineering from Romania), vol. III, 2015, Ed. KAB, ISBN 978-973-114-196-1, pp 333-337

### **Journal papers indexed by ISI Thomson Reuters and papers index as ISI proceedings**

1. Sas G., Dăescu C., Popescu C., **Nagy-György T.**, Numerical optimization of strengthening disturbed regions of dapped-end beams using NSM and EBR CFRP, Composites Part B: Engineering 67 (2014), 381-390, ISSN: 1359-8368 (IF: 2.983/2014)
2. Floruț C., Stoian V., **Nagy-György T.**, Dan D., Diaconu D, Performance assessment of mixed CFRP retrofitting solution for RC slabs, 2nd International Conference on Structures and Architecture (ICSA2013), July 24-26, 2013, Guimaraes, Portugal, ISBN 978-041566195-9, pp. 727-732
3. Dan D., Fabian A., Stoian V., **Nagy-György T.**, Experimental study on steel-concrete shear walls with steel encased profiles retrofitted with FRP composites, 2nd International Conference on Structures and Architecture (ICSA2013), July 24-26, 2013, Guimaraes, Portugal, ISBN 978-041566195-9, pp. 1474-1481
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6. Dan D., Stoian V., **Nagy-György T.**, Fabian A., Dăescu C., Floruț C., Demeter I., The behaviour of steel and steel concrete composite joints, First International Conference on Structures and Architecture (ICSA2010), Guimaraes, Portugal, 2010, ISBN 978-0-415-49249-2, pp 1355-1362
7. Demeter I., **Nagy-György T.**, Stoian V., Dăescu C., Dan D., FRP Composites for Seismic Retrofitting of RC Wall Panels with Cut-Out Openings, First International Conference on Structures and Architecture (ICSA2010), Guimaraes, Portugal, 2010, ISBN 978-0-415-49249-2, pp 1902-1908
8. Floruț C., Stoian V., **Nagy-György T.**, Dan D., Diaconu D, Retrofitting of two-way RC slabs with and without cut-out openings by means of FRP composite materials, The 3rd

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9. **Nagy-György T.**, Stoian V., Dan D., Dăescu C., Demeter I., Diaconu D., Dogariu A., Experimental assessment on shear strengthening of clay brick masonry walls using different techniques, PROHITECH, Rome, 2009, ISBN 978-0-415-55804-4, pp 1653-1658
  10. Diaconu D., **Nagy-György T.**, Stoian V., Dan D., Floruț S. C., Dăescu C. A., Demeter I., Economic Assessment of Different Shear Strengthening Methods for Clay Brick Masonry Walls, PROHITECH, Rome, 2009, ISBN 978-0-415-55804-4, pp 1275-1280
  11. Dan D., Stoian V., **Nagy-György T.**, Demeter I., Experimental Studies on Steel and Steel Concrete Composite Joints Under Symmetrical and Asymmetrical Loads, STESSA 2009, Philadelphia, USA, ISBN 978-0-415-56326-0, pp 187-193
  12. Dăescu C., **Nagy-György T.**, Experimental study on the strengthening procedures for reinforced concrete columns, 11th WSEAS International Conference on Sustainability in Science Engineering (SSE '09), Timisoara, 2009, ISSN 1790-2769, ISBN 978-960-474-080-2, pp 490-495
  13. Floruț C., Stoian V., Dan D., **Nagy-György T.**, Diaconu D., Strengthening of hollow core precast slabs using FRP composite materials – procedure, testing and rating, 11th WSEAS International Conference on Sustainability in Science Engineering (SSE '09), Timisoara, 2009, ISSN 1790-2769, ISBN 978-960-474-080-2, pp 496-501
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  15. Demeter I., **Nagy-György T.**, Stoian V., Dan D., Quasi-static Loading Strategy for Earthquake Simulation on Precast RC Shear Walls, 12th WSEAS International Conference on SYSTEMS, Greece, 2008, ISBN 978-960-6777-83-1, ISSN 1790-2769, pp 813-829
  16. Dan D., Stoian V., **Nagy-György T.**, Dăescu C., Composite joint for buildings placed in seismic areas - Theoretical and experimental studies, 9th International conference on Steel, Space & Composite Structures (SS07), Yantai - Beijing, China, 2007, ISBN 978-981-05-7589-0, P647-655
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  18. Dan D., Stoian V., **Nagy-György T.**, Dăescu C., Pavlou D., Numerical analysis and experimental studies on welded joint for buildings, 3rd WSEAS International Conference MECHANICS'07, Tenerife, Spain, 2007, ISBN 978-960-6766-19-0, ISSN 1790-2769, p106-111.
  19. **Nagy-György T.**, Dan D., Stoian V., Dăescu C., Diaconu D., Floruț C., RC beams and columns retrofitted with FRP composites – Experimental Investigations, 3rd WSEAS International Conference MECHANICS'07, Tenerife, Spain, 2007, ISBN 978-960-6766-19-0, ISSN 1790-2769, p112-117.
  20. Dan D., Stoian V., **Nagy-György T.**, Dăescu C., Actions and policies to implement sustainable construction - Energy efficiency of old and new buildings, Sustainable

Construction. Materials and Practice. Challenge of the Industry for New Millenium SB07, ISBN 978-1-58603-785-7, P48-56

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22. Dan D., Stoian V., **Nagy-György T.**, Theoretical and experimental studies concerning the load bearing capacity of steel and composite joints, Steel - A New and Traditional Material for Building, Brasov, Ed. Taylor&Francis/Balkema, 2006, ISBN 0-415-40817-2, pg 387-395

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1. Sabău C., Stoian D., Dan D., **Nagy-György T.**, Floruț C., Stoian V., Partial results of monitoring in a passive house, Journal of Applied Engineering Sciences, V1(16), Issue 1, 2013, University of Oradea Publishing House, ISSN 2247-3769, pp 107-111 (Index Copernicus)
2. Stoian D., Dan D., Stoian V., **Nagy-György T.**, Tănasă C., Economic impacts of a passive house compared to a traditional house, Journal of Applied Engineering Sciences, V1(16), Issue 1, 2013, University of Oradea Publishing House, ISSN 2247-3769, pp 135-140 (Index Copernicus)
3. Floruț C., Stoian V., **Nagy-György T.**, Dan D., Diaconu D, Efficiency assessment of CFRP retrofitting solution for RC slabs with and without cut-out openings, CICE2012, Rome, Italy, 2012, ISBN xxx, pp 6 (Google Scholar)
4. Floruț C., Stoian V., **Nagy-György T.**, RC slabs with openings - issues and provision for design approach strategies, 2nd International Conference on Civil Engineering and Building Materials (CEBM 2012), November, Hong-Kong, 2012, ISBN 978-0-415-64342-9, pp 847-852 (SCOPUS)
5. **Nagy-György T.**, Demeter I., Floruț C., Dan D., Causes and required interventions on the rehabilitation process of large panel buildings in Romania, 2nd International Conference on Civil Engineering and Building Materials (CEBM 2012), November, Hong-Kong, 2012, ISBN 978-0-415-64342-9, pp 853-858 (SCOPUS)
6. Demeter I., **Nagy-György T.**, Stoian V., Dăescu C., Dan D., Strengthening strategies using FRP composites for precast RC wall panels with cut-out openings, Int. Rev. Appl. Sci. Eng. 2 (2011) 1, 19–24, ISSN 2062-0810 (Google Scholar)
7. Dan D., Stoian V., **Nagy-György T.**, Floruț C., Pruna L, Structural analysis, rehabilitation and further development of health monitoring program concerning two reinforced concrete chimneys, 34th International IABSE Symposium, Venice, Italy, 2010, ISBN 978-3-85748-122-2, pp 656-657 (+7 CD) (INGENTA)
8. Demeter I., **Nagy-György T.**, Dăescu C., Stoian V., Dan D., Proposals for strengthening RC walls with wide cut-out openings using CFRP composites, Analele Universității din Oradea, Fascicula Construcții și Instalații, Vol. XIII-2, Oradea, 2010, ISSN 1454-4067, pp 43-50 (Index Copernicus)
9. Floruț C., Stoian V., Dan D., **Nagy-György T.**, Diaconu D, Experimental investigations on the behaviour of two-way RC slabs retrofitted with CFRP materials, Analele

- Universităţii din Oradea, Fascicula Construcţii şi Instalaţii, Vol. XIII-2, Oradea, 2010, ISSN 1454-4067, pp 83-90 (Index Copernicus)
10. Dan D., Stoian V., **Nagy-György T.**, Theoretical and experimental studies on steel concrete composite joints, *Bul. Ştiinţific al Universităţii Gheorghe Asachi din Iaşi*, 2010, ISSN 1224-3884, LX, p55-65, 2010 (Index Copernicus)
  11. Demeter I., **Nagy-György T.**, Stoian V., Dăescu C., Dan D., Precast RC Wall Panels with Cut-out Openings Retrofitted by FRP Composites, *IABSE Symposium Bangkok, 2009*, ISBN 978-3-85748-121-5, pp 462-463 (8 pp CD) (INGENTA)
  12. Sas G., Demeter I., Carolin A., **Nagy-György T.**, Stoian V., Täljsten B., FRP strengthened RC panels with cut-out openings, *Challenges for Civil Construction (CCC 2008)*, Porto, Portugalia, apr 2008, ISBN 978-972-752-100-5, pp 196-197 (+8 pg) (Google Scholar)
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  14. Dăescu C., Stoian V., **Nagy-György T.**, Dan D., Demeter I., Ductility increasing for concrete columns. Experimental results, *17th IABSE Congress, Chicago, USA, sept 2008*, ISBN 978-3-85748-118-5, pp 510-511 (+6pp) (INGENTA)
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  16. Dan D., Stoian V., **Nagy-György T.**, Numerical analysis and experimental studies concerning the behaviour of steel and steel-concrete composite joints under symmetrical and asymmetrical loads, *ICSCS07 - Steel and Composite Structures, Manchester, United Kingdom, july 2007*, ISBN 978-0-415-45141-3, p389-398 (SCOPUS)
  17. **Nagy-György T.**, Stoian V., Gergely J., Dan D., High Performance Materials Used in Retrofitting Structural Masonry Walls, *IABSE Symposium on Responding to Tomorrow's Challenges in Structural Engineering, Budapest, Hungary, 2006*, ISBN 963 420 838 X (INSPEC)
  18. Dan D., Stoian V., **Nagy-György T.**, Experimental Tests Concerning the Behaviour of the Steel and the Composite Joints, *Buletinul Institutului Politehnic din Iasi, Tomul LII (LVI), fasc. 1-2/2006*, ISSN 1224-3884 (Google Scholar)
  19. **Nagy-György T.**, Stoian V., Dan D., Diaconu D., Dăescu C., In-Plan Shear Retrofit of Masonry Walls with FRP Composites – Experimental Investigations, *Buletinul Institutului Politehnic din Iasi, Tomul LII (LVI), fasc. 1-2/2006*, ISSN 1224-3884 (Google Scholar)
  20. **Nagy-György T.**, Moşoarcă M., Stoian V., Gergely J., Dan D., Retrofit of reinforced concrete shear walls with CFRP composites, *fib Symposium - Keep Concrete Attractive, Budapest, Hungary, 2005*, ISBN 963 420 838 X (Google Scholar)

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1. **Nagy-György T.**, Borosnyói A. , Strengthening of Concrete Elements Using Carbon Fiber Reinforced Polymer (CFRP) Composites, International Conference in Civil Engineering and Architecture – EPKO 2000, Miercurea-Ciuc, Romania, 2000
2. **Nagy-György T.**, Armarea betonului cu armături compozite, Conferința Tehnico-Științifică Jubiliară Tehnologii moderne în construcții, Chișinău, Moldova, 2000
3. Dan D., Stoian V., **Nagy-György T.**, Etude numerique par elements finis d'un raboutage par chevêtre transversal en béton armé, Buletinul Științific al Universității Politehnica din Timișoara, Tom 45 (59), 2000
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6. **Nagy-György T.**, Stoian V., Elemente din beton consolidate cu compozite – Exemple de calcul, Zilele Academice Timișene, Timișoara, 2001
7. Nagy-György, T., Design of Flexural Strengthening of Reinforced Concrete Beam with Composites, International Conference in Civil Engineering and Architecture – EPKO 2001, Miercurea-Ciuc, Romania, 2001
8. **Nagy-György T.**, Consolidarea structurilor cu compozite, Cursuri de Terminologie, Cluj-Napoca, EMT, 2002, pag. 168-176
9. **Nagy-György T.**, Stoian V., Dan D., Compozite – materiale cu mare eficiență în industria construcțiilor, Sesiunea Științifică Aniversară Construcții-Instalații, Brașov, 2002
10. Dan D., Stoian V., **Nagy-György T.**, Încercări experimentale privind comportarea nodurilor compuse oțel-beton sub încărcări monotone și ciclice, Sesiunea Științifică Aniversară Construcții-Instalații, Brașov, 2002
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