

List of Publications **ROXANA-MARIANA BEIU**

Publications	2 books		
	8 journals	2 ISI (IF = 1.637, IF = 3.307)	6 BDI
	15 conferences	10 ISI	5 BDI
Presentations	4		
Other Conferences	13		
Citations	23 citations		
Courses	3 courses (WSU: ME220 –	“Mechanics of Materials”	
	UAV : EIME -	“Elemente de Inginerie Mecanica si Electrica”	
	APTB -	“Automatizarea Proceselor Tehnologice si Biotehnologice”	
Projects	5 research projects:		
	2003 – 2005: “Developing new non-invasive brain measurement techniques,” VCAPP, WSU, USA		
	2015 – 2018: “Aurel Vlaicu” University of Arad, Romania		
	▪ <i>Optical Coherence Tomography (OCT) systems with handheld and endoscope probes for real time investigations in material studies and for in vivo medical imaging</i> (http://3om-group-optomechatronics.ro/pp1682/) of the Romanian National Authority for Scientific Research		
	▪ <i>Handheld scanning probes with 1D and 2D galvoscaners for biomedical and industrial investigations using Optical Coherence Tomography (OCT)</i> http://3om-group-optomechatronics.ro/ptep181/		
	▪ <i>Optomechatronic Choppers with rotational discs and shafts with windows for metrological, biomedical, and laser manufacturing applications</i> http://3om-group-optomechatronics.ro/bg297/		
	▪ <i>Micro-Electro-Mechanical Systems (MEMS)-based handheld scanning probes for distortion-free biomedical imaging with Optical Coherence Tomography (OCT)</i> http://3om-group-optomechatronics.ro/pedp1937/		

Remark Pandelescu is my maiden name

2 books

- B1 M.D. Pirzada, and R.M. Beiu (eds.)
Proceedings of the Third Annual Mechanical Engineering Graduate Symposium
 School of Mechanical and Materials Engineering, Washington State University
 Pullman, WA, USA, Apr. 2003
- B2 R.M. Beiu
Inginerie Mecanica, Pas cu Pas (Statice: Analiza Sistemelor in Echilibru)
 Ed. UAV Arad, ISBN, 978-973-752-816-2, June 2019

8 journals (2 ISI and 6 BDI)

- J1 R.M. Pandelescu
 Fiber Optics Communication Systems
Journal of the Military Technical Academy, 7 pp., 1999 BDI
- J2 A.J. Foust, R.M. Beiu, and D.M. Rector
 Optimized Birefringence Changes During Isolated Nerve Activation
Applied Optics, vol. 44, no. 11, pp. 2008-2012, Apr. 2005 IF=1.637 ISI
<http://dx.doi.org/10.1364/AO.44.002008>
- J3 C.D. Stănescu, and R.M. Beiu
 Connecting Optical Fibers
Annals of the University of Oradea
Fascicle of Management and Technological Engineering BDI
 vol. 15, no. 5, pp. 621-624, 2006
 doi: 10.15660/AUOFMTE.2006.282
http://www.imtuoradea.ro/auo.fmte/files-2006/MECATRONICA_files/Constantin%20Stanescu%201.pdf

- J4 R.M. Beiu, and C.D. Stănescu
On Optical Power Budgets for Fiber Optics
Annals of the University of Oradea
Fascicle of Management and Technological Engineering BDI
vol. 15, no. 5, pp. 723-728, 2006
doi: 10.15660/AUOFMTE.2006.300
http://www.imtuoradea.ro/auo.frnte/files-2006/MECATRONICA_files/Roxana-Marina%20Beiu%201.doc.pdf
- J5 R.M. Beiu, and C.D. Stănescu
Mathematical and Technological Approaches for Designing
On-Chip Interconnect Concave Micromirrors
UPB Scientific Bulletin, Series C, vol. 69, no. 1, pp. 11-22, Jan. 2007 BDI
http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full45828.pdf
- J6 R.M. Beiu, and C.D. Stănescu
Optical Fiber Photonic Embedded Sensor
Annals of the University of Oradea
Fascicle of Management and Technological Engineering BDI
vol. 16, no. 6, pp. 1089-1095, 2007
http://www.imtuoradea.ro/auo.frnte/files-2007/MECATRONICA_files/Roxana_Mariana_Beiu_1.pdf
- J7 R.M. Beiu, C.D. Stănescu, and A. Cârstoiu
On 3D Photonic Crystal: A Brief Evaluation of
Their Main Characteristics for Various Topologies
UPB Scientific Bulletin, Series C, vol. 70, no. 2, pp. 41-52, 2008 BDI
http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full83596.pdf
- J8 R.M. Beiu, V. Beiu, and V.-F. Duma
Fiber Optic Mechanical Deformation Sensors Employing Perpendicular Photonic Crystals
Optics Express, vol. 25, issue 19, pp. 23388-23398, 18 Sep. 2017 IF=3.307 ISI
<https://www.osapublishing.org/oe/abstract.cfm?uri=oe-25-19-23388>
- 15 conferences (10 ISI and 5 BDI)**
- C1 R.M. Beiu, C.D. Stănescu, and A. Cârstoiu
On 3D Photonic Crystals
International Conference on Material Science and Engineering BraMat'07 BDI
Braşov, Romania, 22-24 Feb. 2007, pp. 135-140
<http://www2.unitbv.ro/LinkClick.aspx?fileticket=ELsGNJr65Ts%3D&tabid=8330&language=en-US>
- C2 R.M. Beiu, C.D. Stănescu, and V. Beiu
Highly Sensitive Nano-Photonic Embedded Sensor
IEEE International Conference on Nanotechnology IEEE-NANO'07 ISI
Hong Kong, China, 2-5 Aug. 2007, pp. 737-741
<http://dx.doi.org/10.1109/NANO.2007.4601293>
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?amumber=4601293>
- C3 R.M. Beiu, C.D. Stănescu, and V. Beiu
Unique In-Fiber Photonic Crystal Sensor
IEEE International Midwest Symposium on Circuits and Systems MWSCAS'07 ISI
Montréal, Canada, 5-8 Aug. 2007, pp. 116-119
<http://dx.doi.org/10.1109/MWSCAS.2007.4488550>
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?amumber=4488550>
- C4 R.M. Beiu, C.D. Stănescu, and V. Beiu
A Novel Microstructured Fiber Optic Sensor for Small Deformations
SPIE International Symposium on Optomechatronic Technology ISOT'07 ISI
Lausanne, Switzerland, 8-10 Oct. 2007, art. 6716OD (8 pp.)
<http://dx.doi.org/10.1117/12.754190>
<http://spie.org/Publications/Proceedings/Paper/10.1117/12.754190>
- C5 R.M. Beiu, and V. Beiu
Fiber Optic Mechanical Sensor Based on a Triangular-lattice Photonic Crystal
IEEE PhotonicsGlobal@Singapore IPGC'08 ISI
Singapore, 08-11 Dec. 2008, p. 183-186
<http://dx.doi.org/10.1109/IPGC.2008.4781347>
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?amumber=4781347>
- C6 R.M. Beiu, and V. Beiu
Pico Sensors for All Seasons - When Light Performs its Marvels
IEEE International Conference on Innovations in Information Technology IIT'08 ISI
Al Ain, UAE, 16-18 Dec. 2008, pp. 116-120
<http://dx.doi.org/10.1109/INNOVATIONS.2008.4781727>
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?amumber=4781727>

- C7 R.M. Beiu, C. Mnerie, and V.-F. Duma,
Analysis of curved shape micro-mirrors for on-chip communication,
ATOM-N'16, Constanta, Romania, 25-28 Aug. 2016
Proc. Adv. Topics in Optoelectronics, Microelectronics, and Nanotechnologies VIII, ISI
Constanta, Romania, vol.10010, art. 100101Y (8 pp.), Dec. 2016.
<http://dx.doi.org/10.1117/12.2246019>
- C8 R.M. Beiu, V.-F. Duma, and V. Beiu
Transverse 2D photonic crystal inside a fiber optic for picometer-scale measurements
IEEE Intl. Conf. on Numerical Simulation of Optoelectronic Devices NUSOD'17 ISI
Copenhagen, Denmark, 24-28 Jul. 2017, pp. 53,54
<http://dx.doi.org/10.1109/NUSOD.2017.8009987>
<http://ieeexplore.ieee.org/document/8009987/>
- C9 R.M. Beiu, C. Mnerie, N. Pop, V.-F. Duma, G. M. Dobre, A. Bradu, A. Gh. Podoleanu,
Study of thermal degradation of photovoltaic panels: Optical non-destructive versus mechanical
destructive methods
4th Central and Eastern European Conference for Thermal Analysis and Calorimetry BDI
Chisinau, Moldova, 28-31 Aug. 2017
<http://www.ceec-tac.org/conf4/welcome.html> BDI
- C10 C. Marcauteanu, E.T. Stoica, F.E. Mitroi, C. Sinescu, M.L. Negrutiu, Gh. Hutiu, R.-M. Beiu, V.-F. Duma
Effect of a diode laser treatment on different types of dentine. Analysis using
Raman spectroscopy and SEM
2nd Intl Seminar on Biomaterials and Regenerative Medicine (BioRemed) BDI
Timisoara, Romania, 5-8 Oct. 2017
- C11 R.M. Beiu, V.-F. Duma, and V. Beiu
Ultra-small mechanical deformation sensor using a hybrid fiber optic-based
triangular photonic crystal structure
SPIE Photonics Europe, Strasbourg, France, 22-26 Apr. 2018 ISI
Proc. SPIE 10678, Optical Micro- and Nanometrology VII, 106780Z
<http://dx.doi.org/10.1117/12.2307017>
- C12 R.M. Beiu, V.-F. Duma, and V. Beiu
The Latest on the Axon Initial Segment
IEEE 7th Intl.Conf. Comp. Comm. and Control (ICCCC)
Baile Felix, Oradea, Romania, 8-12 May 2018, pp. 136-141 ISI
<http://dx.doi.org/10.1109/ICCCC.2018.8390450>
<https://ieeexplore.ieee.org/document/8390450/>
- C13 N. Pop, R.-M. Beiu, C. Mnerie, G. Hutiu, V.-F. Duma, G. M. Dobre, A. Gh. Podoleanu, P. Svera,
Evaluation of photovoltaic panels: Optical non-destructive vs. mechanical testing methods
8th International Balkan Workshop on Applied Physics and Materials Science BDI
Constanta, Romania, 10-13 Jul. 2018
- C14. N. Pop, R. M. Beiu, P. Svera, C. Mnerie, Gh. Hutiu, V.-F. Duma,
Thermal degradation of photovoltaic panels: evaluations using a range of testing methods,
Environmental Progress & Sustainable Energy 37 (2018),
ISSN 1944-7450 BDI
- C15. R.-M. Beiu, V. Beiu, V.-F. Duma,
Fundamentals and biomedical applications of photonic crystals: An overview
SPIE Intl. Conf. Lasers in Medicine: Romanian-Society-for-Laser-in-Dentistry (SRLS),
Timisoara, Romania, 13-15 Jul. 2017, 108310R (2018), 5 pp. ISI
<https://doi.org/10.1117/12.2282019>

List of Presentations 4

- P1 R.M. Beiu, C.D. Richards, and D.M. Rector
Optical Coherence Tomography (OCT) and Neural Imaging
Veterinary and Comparative Anatomy, Pharmacology and Philosophy (VCAPP) Retreat
Coeur d'Alene, ID, USA, 19-20 May 2004
http://www.vetmed.wsu.edu/depts-vcapp/retreat/VCAPP_Retreat.asp
- P2 A.J. Foust, R.M. Beiu, and D.M. Rector
Single Trial Birefringence Changes Correlated with Neural Activation in
Isolated Nerves Optimized Using Light Emitting Diodes
Veterinary and Comparative Anatomy, Pharmacology and Philosophy (VCAPP) Showcase
Moscow, ID, USA, 12 Mar. 2005
- P3 R.M. Beiu, M. Balas, V. Beiu
Seeing is Believing
International Summit on Optics, Photonics and Laser Technologies
San Francisco, CA, USA, 3-5 June, 2019

- P4 R.-M. Beiu
 Designing Optical Sensors for the Internet of Things Era
The Sixth Euro-China Conference on Intelligent Data Analysis and Applications (ECC2019)
 Arad, Romania <https://www.ecc2019.ro/>

Other Conferences 13

- O1 A. Vasile, and R.M. Pandelescu
 Using Atypical Solutions for Modifying Optical Systems Parameters
Scientific Research Conference, Bucharest, Romania, 7 pp., 1995
- O2 A. Vasile, and R.M. Pandelescu
 Performance Survey of Night Vision Devices
Scientific Research Conference, Bucharest, Romania, 10 pp., 1996
- O3 M. Varga, and R.M. Pandelescu
 Using Fiber Optics for Transferring Images
Scientific Research Conference, Bucharest, Romania, 11 pp., 1997
- O4 A. Vasile, and R.M. Pandelescu
 Infrared Detection Applied to Thermovision
Scientific Research Conference, Bucharest, Romania, 10 pp., 1998
- O5 R.M. Pandelescu, A. Vâsc, and C. Vasile
 On Using Photographic and Video Equipment in Surveillance Activities
Scientific Research Conference, Bucharest, Romania, 12 pp., 1999
- O6 R.M. Beiu
 Embedded Sensor Enabled by Photonic Crystals
The Third Annual Mechanical Engineering Graduate Symposium
 Washington State University, Pullman, WA, USA, 5 Mar. 2003
- O7 R.M. Beiu, C.D. Richards, R.F. Richards, M.D. Fueller, D.F. Bahr, and D.M. Rector
 A Flexible 64 Channel Electrode Array for Chronic Local Field Potential Recording and Mapping
Neuroscience'03, New Orleans, LA, USA, 25-30 Oct. 2003
- O8 R.M. Beiu
 Embedded Sensor Enabled by Photonic Crystals
Proc. 4th ISREIE, Series: Engineering, Arad (Romania)
 Dec. 8-10, 2016
- O9 R.-M. Beiu, C. Mnerie, N. Pop, and V.-F. Duma
 SEM, AFM, and OCT investigations of photovoltaic cells
ISREIE 2018, Arad, Arad, Romania, 17-19 May 2018
- O10 D. Demian, I. Kaposta, G. Hutiu, R.-M. Beiu, C. Mnerie, and V.-F. Duma
 Optimization of some technological processes of SME in a bridge grant
Proc. 5th ISREIE 2018, Arad, Arad, Romania, 17-19 May 2018
- O11 R.-M. Beiu, and V.-F. Duma
 Simulation of micromirrors technology
Proc. 5th ISREIE 2018, Arad, Arad, Romania, 17-19 May 2018
- O12 R.-M. Beiu
 COMSOL capabilities for photonics simulations
 3OM Workshop in Optomechatronics and Biomedical Imaging - celebrating IDL 2019
Proc. 5th ISREIE 2019, Arad, Arad, Romania, 23-25 May 2019
- O13 R.-M. Beiu, V. Beiu
 Sidestepping the Bounds of Diffraction
Proc. 5th ISREIE 2019, Arad, Arad, Romania, 23-25 May 2019

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- J2 (ISI) A.J. Foust, R.M. Beiu, and D.M. Rector
 Optimized Birefringence Changes During Isolated Nerve Activation
Applied Optics, vol. 44, no. 11, pp. 2008-2012, Apr. 2005 IF=1.637 ISI
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- 1) M.D. McCluskey, J.J. Sable, A.J. Foust, G. Gratton, and D.M. Rector
 Recording invertebrate nerve activation with modulated light changes
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<http://dx.doi.org/10.1364/AO.46.001866>
<https://www.osapublishing.org/ao/abstract.cfm?uri=ao-46-10-1866>
 - 2) A.J. Foust ; J.L. Schei ; M.J. Rojas ; D.M. Rector
 In Vitro and in Vivo Noise Analysis for Optical Neural Recording
Journal of Biomedical Optics, vol. 13, no. 4, pp. 044038, July 2008 IF = 2.97
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 - 3) J.L. Schei, M.D. McCluskey, A.J. Foust, X.-C. Yao, and D.M. Rector
 Action Potential Propagation Imaged with High Temporal Resolution
 Near-infrared Video Microscopy and Polarized Light
NeuroImage. vol. 40, no. 3, pp. 1034–1043, Apr. 2008 IF = 5.694
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 - 4) F.A. Wininger, J.L. Schei, and D.M. Rector
 Complete Optical Neurophysiology: Toward Optical Stimulation and
 Recording of Neural Tissue
Applied Optics, vol. 48, no. 10, pp. D218-D224, Apr. 2009 IF = 1.410
<http://dx.doi.org/10.1364/AO.48.00D218>
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 - 5) R.-W. Lu, Q.-X. Zhang, and X.-C. Yao
 Circular polarization intrinsic optical signal recording of
 stimulus-evoked neural activity
Optics Letters, vol. 36, no.10, pp. 1866-1868, Mar. 2011 IF = 3.352
<http://dx.doi.org/10.1364/OL.36.001866>
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 - 6) A.J. Foust, and D.M. Rector
 Optically Teasing Apart Neural Swelling and Depolarization
Neuroscience, vol. 145, no. 3, pp. 887-899, Mar. 2007 IF = 3.352
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<http://www.sciencedirect.com/science/article/pii/S0306452206017544>
 - 7) X. Yao ; B. Wang
 Intrinsic Optical Signal Imaging of Retinal Physiology: A Review
Journal of Biomedical Optics, vol. 20, no. 9, pp. 090901, Sep 2015 IF = 2.859
<http://dx.doi.org/10.1117/1.JBO.20.9.090901>
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 - 8) A.J. Foust and D.M. Rector
 Optically Teasing Apart Neural Swelling and Depolarization
 Biomedical Topical Meeting 2006, Fort Lauderdale, Florida United States, 19 March 2006
<http://dx.doi.org/10.1364/BIO.2006.MD7>
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 - 9) M.D. McCluskey, J.J. Sable, A.J. Foust, G. Gratton, and D.M. Rector
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 - 10) J.L. Schei, A.J. Foust, M.J. Rojas, J.A. Navas, and D.M. Rector
 Evoked Optical Response under Wake, Sleep and Anesthetized States
 Biomedical Optics 2008, St. Petersburg, Florida United States, 16–19 March 2008
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 - 12) K.. Schoener, L. Cervia, and I.J. Bigio
 Novel Cooled Sliding Chamber Elucidates Origins of
 Action Potential Modulated Birefringence

- Biomedical Optics and 3-D Imaging 2010, Miami, FL, USA, 11-14 Apr. 2010
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 PhD Thesis, Department of Veterinary and Comparative Anatomy,
 College of Veterinary Medicine, Washington State University, USA, 2006
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- 14) K.J. Schoener
 Non-invasive, High-Resolution Spatiotemporal Mapping of Neuronal Activity through
 Field-induced Changes in Birefringence
 PhD Thesis, College of Engineering, Boston University, Boston, USA, 2010
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 Optical Imaging of Neural and Hemodynamic Brain Activity
 PhD Thesis, Department of Physics and Astronomy, Washington State University, USA, May 2011
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J8 (ISI) R.M. Beiu, V. Beiu, and V.-F. Duma
 Fiber optic mechanical deformation sensors employing perpendicular photonic crystals
Optics Express, vol. 25, issue 19, pp. 23388-23398, 2017 *IF=3.307 ISI*
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C10 (ISI) R.M. Beiu, and V. Beiu
 Fiber Optic Mechanical Sensor Based on a Triangular-lattice Photonic Crystal
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J3 (BDI) C.D. Stănescu, and R.M. Beiu
 Connecting Optical Fibers
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J4 (BDI) R.M. Beiu, and C.D. Stănescu
On Optical Power Budgets for Fiber Optics
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Passive Optical Network for Green and Dry Field Areas of Pakistan
International Journal of Soft Computing and Engineering (IJSCE)
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<http://arxiv.org/abs/1509.05958> BDI

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