

PERSONAL INFORMATION



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Sex Female | **Date of birth** 10 November 1968 | **Nationality** Romanian

LIST OF PUBLICATIONS

15 Remark: Pandelescu is my maiden name

1 book

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

7 journals (1 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%20Stănescu%201.pdf

J4 [R.M. Beiu](#), and C.D. Stănescu

On Optical Power Budgets for Fiber Optics

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Fascicle of Management and Technological Engineering

BDI

vol. 15, no. 5, pp. 723-728, 2006

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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

doi: 10.15660/AUOFMTE.2007.658

http://www.imtuoradea.ro/auo.fmte/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

8 conferences (6 ISI and 1 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
Brașov, Romania, 22-24 Feb. 2007, pp. 135-140
<http://www2.unitbv.ro/LinkClick.aspx?fileticket=ELsGNJr65Ts%3D&tqid=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>
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- 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
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- 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?arnumber=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?arnumber=4781727>
- C7 R.M. Beiu, C. Mnerie, and V.-F. Duma,
Analysis of Curved Micro-mirrors for On Chip Communication
SPIE Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies ISI
ATOM-N'16 , Constanta, Romania, Proc. of SPIE, vol. 10010, pp. 100101Y(1-8), 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
International Conference on Numerical Simulation of Optoelectronic Devices
NUSOD'17, Copenhagen, Denmark, 24-28 Jul. 2017.

List of Presentations 2

- 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

Other Conferences

8

- 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**
High-Resolution Curved Micromirrors for On-Chip Interconnects
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
ISREIE 2016, Arad, jud. Arad, Romania, 8-10 Dec. 2016

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J2 (ISI) A.J. Foust, **R.M. Beiu**, and D.M. Rector
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In Vitro and in Vivo Noise Analysis for Optical Neural Recording
Journal of Biomedical Optics, vol. 13, no. 4, pp. 044038, July 2008
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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
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Circular polarization intrinsic optical signal recording of
stimulus-evoked neural activity
Optics Letters, vol. 36, no.10, pp. 1866-1868, Mar. 2011
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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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C5 (ISI) R.M. Beiu, and V. Beiu

Fiber Optic Mechanical Sensor Based on a Triangular-lattice Photonic Crystal IEEE PhotonicsGlobal@Singapore IPGC'08
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- J3 (BDI)** C.D. Stănescu, and **R.M. Beiu**
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- J4 (BDI)** **R.M. Beiu**, and C.D. Stănescu
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