

CURRICULUM VITAE and LIST OF PUBLICATIONS

PERSONAL INFORMATION

- Name: **Danut-Adrian**, Surname: **COJOC**
(Note: Dan COJOC is the short name used to sign publications)
- Date /place of birth: 23 June 1962 / Romania (RO)
- Nationality: Italy / Romania
- Home address: Via di Cologna, 15 - 34128 Trieste, Italy (IT)
- Work address: CNR – IOM, Area Science Park – Basovizza, SS 14 km 163.5, Ed. MM, I-34149 Trieste, Italy
- Tel: +39-40-3758772; Fax:+39-40-226767
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EDUCATION

- 1997 - PhD in Technical Physics - University “Politehnica” of Bucharest (UPB), RO
- 1986 - Master in Precision Mechanics and Optical Engineering, UPB, RO

CURRENT POSITION

- July 2004 – present: Senior Researcher (Primo Ricercatore), responsible of the Optical Manipulation Lab at CNR-IOM: the National Research Council of Italy (CNR), Institute of Materials (IOM), Trieste, Italy

PREVIOUS POSITIONS

- 2003-2004: Professor; 2000-2003: Associate Professor; 1997-2000: Lecturer; 1990-1997: Assistant Professor for Applied Optics and Optical Information Processing courses at the Faculty of Mechanics and the Faculty of Electronics of the University “Politehnica” of Bucharest (UPB), RO.
- 1986 – 1990: Research Engineer at the Research Institute for Electronic Components, Bucharest.

FELLOWSHIPS

- May – July 2008: visiting scientist, X-ray microscopy and SAXS, European Synchrotron Radiation Facility (ESRF), Grenoble, FR
- Sept - Oct 2008: visiting scientist, X-ray diffraction and microscopy, Deutsches Elektronen-Synchrotron (DESY), Hamburg, DE
- June 2000- June 2004: INFM associate researcher, diffractive optics design and nanofabrication, optical microscopy, Istituto Nazionale per la Fisica della Materia INFM – TASC, Trieste, IT
- Mar - Apr 2000: visiting professor EU Tempus, optical information processing, Univ. of Valencia, Dept. of Optics, ES
- March – June 1999: visiting researcher RO-IT collaboration, image registration and pattern recognition, CNR – IEIIT, Torino, IT
- Nov 1997 – June 1998: visiting researcher, International Centre for Theoretical Physics (ICTP) Trieste, TRIL program, image registration and pattern recognition vision project, CNR – IEIIT, Turin, IT.

- Jan – July 1996: visiting researcher Piemonte grant, diffractive optics for beam shaping, Politecnico di Torino, Dept. of Electronics, Turin, IT
- Apr – June 1994: visiting researcher EU Tempus, optical pattern recognition, Univ. of Valencia, Dept. of Optics, Valencia, ES.

SCIENTIFIC PROFILE

With an initial background in Optics and Technical Physics Dan has been working in the fields of Optics, Nanoscience and Biophotonics for more than 20 years. His scientific activity and skills are highly interdisciplinary. During his career he has developed advanced microscopy and spectroscopy instrumentation and techniques for applications in nanotechnology, biophysics, cancer cell and neurobiology.

The most important 10 contributions are:

1. show how glucose-coated magnetic nanops can be used for metabolic-based assays aimed at detecting and targeting cancer cells in:
2016 - Scientific Reports 6, art. no. 21629;
DOI: 10.1038/srep21629;
<http://www.nature.com/s/srep21629>
2. introduce new cell vertical indentation approach using optical tweezers to measure cancer cell stiffness complementary to AFM probing in:
2016 - Nanotechnology 27, art. no 065102;
DOI: 10.1088/0957-4484/27/6/065102;
<http://iopscience.iop.org//10.1088/0957-4484/27/6/065102>
3. characterize the activation of small GTPases by local stimulation of the growth cones of neuronal cells and FRET microscopy in:
2015 - Frontiers Cell. Neuroscience 9, art. no 333;
DOI: 10.3389/fncel.2015.00333;
<http://journal.frontiersin.org//10.3389/fncel.2015.00333/abstract>
4. pioneer speckle based technique and sensing device for fast detection of malaria in
2012 - Biomed. Opt. Express 3, 991-1005;
DOI: 10.1364/BOE.3.000991;
<https://www.osapublishing.org/boe/abstract.cfm?URI=boe-3-5-991>
5. introduce a new local technique to stimulate different compartments of a neuronal cell with very high spatial and temporal resolution in:
2012 - Scientific Reports 2, art. no. 00675; 2011;
DOI: 10.1038/srep00675;
<http://www.nature.com/s/srep00675>
and
(Integrative Biology 3, 568-577) ;
DOI: 10.1039/C0IB00102C;
<http://pubs.rsc.org/en/content/landing/2011/ib/c0ib00102c#!divAbstract>
6. design and implement a new device and optical manipulation approach for local analysis of biological samples by micro-Small Angle X-ray Scattering SAXS with Synchrotron radiation microbeam in:
2011 Analytical Chemistry 83 4863-4870;
DOI: 10.1021/ac200515x;
<http://pubs.acs.org/doi/abs/10.1021/ac200515x>
and
2010 - Appl. Phys. Lett. 97, art. no. 24410;
DOI: 10.1063/1.3525941;
<http://scitation.aip.org/content/aip/journal/apl/97/24/10.1063/1.3525941> .

7. design and implement a new optical tweezers technique to position and study bubble dynamics excited by ultrasounds in:
2009 – New J. of Phys. 11, art. no 013046;
DOI: 10.1088/1367-2630/11/1/013046
<http://iopscience.iop.org/10.1088/1367-2630/11/1/013046>
and
2007 - Appl. Phys. Lett. 90, art. no 114103;
DOI: 10.1063/1.2821245;
<http://scitation.aip.org/content/aip/journal/apl/91/23/10.1063/1.2821245>
8. pioneer the optical tweezers force measurement technique to measure the force exerted by the filopodia and lamellipodia of the neuronal growth cones in:
2007 - PLoS ONE 2, art. no. e1072;
DOI: 10.1371/journal.pone.0001072;
<http://journals.plos.org/plosone/?id=10.1371/journal.pone.0001072>
9. a new method to perform simultaneously three dimensional optical sectioning and optical manipulation of living cells in:
2005 - Opt. Express 5, 1395-1405;
DOI: 10.1364/OPEX.13.001395;
<https://www.osapublishing.org/oe/abstract.cfm?uri=oe-13-5-1395>
10. design and implementation of a new type of X-ray zone plate for phase contrast X-ray microscopy of biological samples in:
2003- Opt. Express 11, 2278-88;
DOI: 10.1364/OE.11.002278;
<https://www.osapublishing.org/oe/abstract.cfm?uri=oe-11-19-2278>

Dan has designed and implemented more than 20 optical tweezers microscopes and integrated them with microfluidics, force measurement, multi trapping, laser surgery for the study of biological samples as living cells in physiological conditions. 3 setups are running in the Optical Manipulation Lab at CNR-IOM, the others are located either in Italy (Trieste, Milan, Catanzaro) or abroad (France, Netherlands, Romania, Ghana, Venezuela).

The results of his research activity have been presented in 131 publications. He organized 12 international schools and workshops in nanotechnology, biophotonics, super-resolution microscopy, optofluidics. Dan Cojoc is a reviewer for more than 10 journals in optics, physics and biophysics (e.g. Biomed. Opt. Express, Nat. Nanotech., Integr. Biol., Opt. Express, Nat. Comm.) and member of the editorial board for 3 other journals (Frontiers Nanotechnology, Journal of Optics and Int. J. of Optomechatronics). He has more than 30 invited talks at international workshops and conferences.

PUBLICATIONS

- 131 papers in peer-reviewed journals and international conference proceedings; citations: 2018 (963 since 2013); h-index: 23 (18 since 2013); i-10 index: 56 (28 since 2013) – Google Scholar August 6th 2018
- 11 books/chapter co-author/editor
- 2 international patents

RESEARCH PROJECTS AND FUNDINGS

1. 2017-2019: PI CNR-IOM of the PRO-FESR project on BIOPTICS (bacteria detection) – 110 k€ / 450 k€

2. 2010 – 2014: CNR – IOM unit coordinator of the Italian Institute of Technology IIT-Seed project: MYOMAC - Myosin based machines project – 115 / 520 k€
3. 2008 – 2011: CNR – IOM work package responsible (local optical delivery), European project NANOSCALE - Understanding interactions between cells and nanopatterned surfaces - 170 / 1.800 k€
4. 2007 – 2010: CNR – IOM unit coordinator of the ESRF-CNR-Austrian Academy of Science collaboration project: Optical sample manipulation microscope for SAXS experiments – 130 / 310 k€
5. 2009 – 2012 CNR – IOM: researcher in the EU NFFA (Nanoscience Foundries & Fine Analysis) project, responsible of the workpackage for sample manipulation without mechanical contact.
6. 2002 – 2004 INFM – TASC researcher in 2 national (PRIN and FIRB) projects on diffractive optics for X-Ray microscopy and optical tweezers.
7. Univ. “Politehnica” of Bucharest – coordinator for two national research projects (1995-1997, 1998-1999) on optical pattern recognition.

ACADEMIC APPOINTMENTS

- 2007 - 2018: faculty member of the PhD Course in Nanotechnology at the University of Trieste (UT).
- 2013 – 2018 associate member of the PhD Course in Neurobiology at SISSA (International School for Advanced Studies), Trieste, Italy.
- 2008-2009, 2011-2012: professor with contract at the Faculty of Medicine UT, master in Nanobiotechnology.
- 2000-2004 faculty member of the PhD course in Optoelectronics at the University “Politehnica” of Bucharest (UPB)-RO.
- Lecturer (1997-2000), associate professor (2000-2003), professor (2003-2004) at the UPB-RO, for the courses: Applied Optics and Optical Information Processing at the Faculty of Mechanics and the Faculty of Electronics and Telecommunications.

TEACHING ACTIVITIES

- 2013- present: lectures of Advanced Optical Microscopy at SISSA for the PhD students in Neurobiology
- 2014 – present: lectures of Optical Microscopy for Nanotechnology at UT for the PhD students in Nanotechnology
- 2011-2013, 2007-2009 – lectures of Optical Microscopy at UT, Faculty of Medicine, master Nanobiotechnology
- 2014- present: lectures and lab of Optical Tweezers Microscopy for Neurobiology at SISSA, Summer School in Neurobiology
- 1990 – 2004: courses of Technical Optics, Applied Optics, Optometry, Optical Information Processing and Fourier Optics at the faculties of Mechanics and Electronics UPB-RO - master and PhD program; conducted laboratory activities and supervised yearly projects.

THESIS SUPERVISION

- 2013 – present, supervising three PhD students in Neurobiology at SISSA (Yunzhen Li - 1st year, Fabio Falleroni – 3rd year, Xuan Nguyen – 3rd year) and other two in the past: Rajesh Shahapure - 2007, Federico Iseppon - 2017.

- 2007 – present, supervised nine PhD theses for PhD Nanotechnology at the University of Trieste (E. Ferrari – 2007, V. Garbin – 2007, E. D’Este – 2012, F. Tavano – 2012, G. Coceano – 2015, L. Venturelli – 2015, S. Yousafzay – 2016, V. Cotta – 2nd year, M. Lima 1st year)
- 2005 – present, supervised four PhD theses in Physics within the ICTP-STEP (the International Centre for Theoretical Physics - Trieste) program (M. Nadasan – 2005, A. Moradi – 2008, S. Topuzoski – 2009, F. Ndoye 2015)
- 2004 – present, supervised one master thesis in Physics (E. Goi - 2015) and three theses for Bachelor degree in Physics at the University of Trieste (UT)
- 2007 – present supervised four master theses in Nano- Biotechnology at the UT (P. Beuzer - 2008, A. Giniatulina – 2009, T. Raffaelli – 2012, A. Mariutti – 2015, F. Cozza - 2017) and one in Neurosciences (M. Damenti - 2017)
- 1990 – 2004 – supervised 32 master theses in Engineering at the University “Politehnica” of Bucharest.

LIST OF PUBLICATIONS

Updated at 6th August 2018

131 publications

Pertici, I., Bongini, L., Melli, L., Bianchi, G., Salvi, L., Falorsi, G., Squarci, C., Bozó, T., COJOC, D., Kellermayer, M., Lombardi, V., and Bianco, P.

A myosin II nanomachine mimicking the striated muscle
(2018) *Nature Communications*, accepted July 2018

Falleroni, F., Torre, V., COJOC, D.

Cell mechanotransduction with piconewton forces applied by optical tweezers
(2018) *Frontiers in Cellular Neuroscience*, 12, art. no. 130.

DOI: 10.3389/fncel.2018.00130

Prada, I., Gabrielli, M., Turola, E., Iorio, A., D’Arrigo, G., Parolisi, R., De Luca, M., Pacifici, M., Bastoni, M., Lombardi, M., Legname, G., COJOC, D., Buffo, A., Furlan, R., Peruzzi, F., Verderio, C.
Glia-to-neuron transfer of miRNAs via extracellular vesicles: a new mechanism underlying inflammation-induced synaptic alterations

(2018) *Acta Neuropathologica* 135(4), 529-550

DOI: 10.1007/s00401-017-1803-x

Mortal, S., Iseppon, F., Perissinotto, A., D’Este, E., COJOC, D., Napolitano, L.M.R., Torre, V.
Functions and dynamics of actin waves

(2018) *Biophysical Journal* 114(3), 142a

Picazo-Bueno, J.Á., COJOC, D., Iseppon, F., Torre, V., Micó, V.

Single-shot, dual-mode, water-immersion microscopy platform for biological applications
(2018) *Applied Optics*, 57 (1), pp. A242-A249.

DOI: 10.1364/AO.57.00A242

Mortal, S., Iseppon, F., Perissinotto, A., D’Este, E., COJOC, D., Napolitano, L.M.R., Torre, V.
Actin waves do not boost neurite outgrowth in the early stages of neuron maturation

(2017) *Frontiers in Cellular Neuroscience*, 11, art. no. 402.

DOI: 10.3389/fncel.2017.00402

Drago, F., Lombardi, M., Prada, I., Gabrielli, M., Joshi, P., COJOC, D., Franck, J., Fournier, I., Vizioli, J., Verderio, C.

ATP modifies the proteome of extracellular vesicles released by microglia and influences their action on astrocytes

(2017) *Frontiers in Pharmacology*, 8 (DEC), art. no. 910.
DOI: 10.3389/fphar.2017.00910

Yousafzai, M.S., Coceano, G., Bonin, S., Niemela, J., Scoles, G., COJOC, D.
Investigating the effect of cell substrate on cancer cell stiffness by optical tweezers
(2017) *Journal of Biomechanics*, 60, pp. 266-269.
DOI: 10.1016/j.jbiomech.2017.06.043

Picazo-Bueno, J.A., COJOC, D., Torre, V., Micó, V.
Single-shot water-immersion microscopy platform for qualitative visualization and quantitative phase imaging of biosamples
(2017) *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, 10414, art. no. 104140T.
DOI: 10.1117/12.2286042

Iseppon, F., Napolitano, LM., Torre, V., COJOC, D.
Combining FRET and optical tweezers to study RhoGTPases spatio-temporal dynamics upon local stimulation.
(2017) *J Biol Methods*;4(1):e65.
DOI: 10.14440/jbm.2017.159

Amin, L., Nguyen, X.T.A., Rolle, I.G., D'Este, E., Giachin, G., Tran, T.H., Šerbec, V.Č., COJOC, D.*, Legname, G.* (* equally contributed)
Characterization of prion protein function by focal neurite stimulation
(2016) *Journal of Cell Science*, 129 (20), pp. 3878-3891.
DOI: 10.1242/jcs.183137

Yousafzai, M.S., Coceano, G., Mariutti, A., Ndoye, F., Amin, L., Niemela, J., Bonin, S., Scoles, G., COJOC, D.
Effect of neighboring cells on cell stiffness measured by optical tweezers indentation
(2016) *Journal of Biomedical Optics*, 21 (5), art. no. 057004.
DOI: 10.1117/1.JBO.21.5.057004

Fabrizio, E.D., Schlücker, S., Wenger, J., Regmi, R., Rigneault, H., Calafiore, G., West, M., Cabrini, S., Fleischer, M., Van Hulst, N.F., Garcia-Parajo, M.F., Pucci, A., COJOC, D., Hauser, C.A.E., Ni, M.
Roadmap on biosensing and photonics with advanced nano-optical methods
(2016) *Journal of Optics (United Kingdom)*, 18 (6), art. no. 063003.
DOI: 10.1088/2040-8978/18/6/063003

Venturelli, L., Nappini, S., Bulfoni, M., Gianfranceschi, G., Dal Zilio, S., Coceano, G., Del Ben, F., Turetta, M., Scoles, G., Vaccari, L., Cesselli, D., COJOC, D.
Glucose is a key driver for GLUT1-mediated nanops internalization in breast cancer cells
(2016) *Scientific Reports*, 6, art. no. 21629.
DOI: 10.1038/srep21629

Coceano, G., Yousafzai, M.S., Ma, W., Ndoye, F., Venturelli, L., Hussain, I., Bonin, S., Niemela, J., Scoles, G., COJOC, D.*, Ferrari, E.* (* equally contributed)
Investigation into local cell mechanics by atomic force microscopy mapping and optical tweezer vertical indentation
(2016) *Nanotechnology*, 27 (6), art. no. 065102,
DOI: 10.1088/0957-4484/27/6/065102

Yousafzai, M.S., Ndoye, F., Coceano, G., Niemela, J., Bonin, S., Scoles, G., COJOC, D.
Substrate-dependent cell elasticity measured by optical tweezers indentation
(2016) *Optics and Lasers in Engineering*, 76, pp. 27-33. Cited 1 time.

DOI: 10.1016/j.optlaseng.2015.02.008

Ndoye, F., Yousafzai, M.S., Coceano, G., Bonin, S., Scoles, G., Ka, O., Niemela, J., COJOC, D.
The influence of lateral forces on the cell stiffness measurement by optical tweezers vertical indentation

(2016) *International Journal of Optomechatronics*, 10 (1), pp. 53-62.

DOI: 10.1080/15599612.2016.1149896

Prada, I., Amin, L., Furlan, R., Legname, G., Verderio, C., COJOC, D.

A new approach to follow a single extracellular vesicle–cell interaction using optical tweezers

(2016) *BioTechniques*, 60 (1), pp. 35-41.

DOI: 10.2144/000114371

Mas, D., Ferrer, B., COJOC, D., Finaurini, S., Mico, V., Garcia, J., Zalevsky, Z.

Novel image processing approach to detect malaria

(2015) *Optics Communications*, 350, art. no. 20034, pp. 13-18.

DOI: 10.1016/j.optcom.2015.03.064

Iseppon, F., Napolitano, L.M.R., Torre, V., COJOC, D.

Cdc42 and RhoA reveal different spatio-temporal dynamics upon local stimulation with Semaphorin-3A

(2015) *Frontiers in Cellular Neuroscience*, 9 (AUGUST), art. no. 333, 11 p.

DOI: 10.3389/fncel.2015.00333

COJOC, D.

Local probing and stimulation of neuronal cells by optical manipulation

(2014) Proceedings of SPIE - The International Society for Optical Engineering, 9164, art. no. 91640S, Invited.

DOI: 10.1117/12.2064273

Cabrera, H., Suárez-Vargas, J.J., López, A., Núñez, H., Carvalho, G., Coceano, G., COJOC, D.

Experimental determination of trapping efficiency of optical tweezers

(2013) *Philosophical Magazine Letters*, 93 (11), pp. 655-663.

DOI: 10.1080/09500839.2013.835078

Mitri, E., Pozzato, A., Coceano, G., COJOC, D., Vaccari, L., Tormen, M., Greci, G.

Highly IR-transparent microfluidic chip with surface-modified BaF₂ optical windows for Infrared Microspectroscopy of living cells

(2013) *Microelectronic Engineering*, 107, pp. 6-9.

DOI: 10.1016/j.mee.2013.02.068

Difato, F., Pinato, G., COJOC, D.

Cell signaling experiments driven by optical manipulation

(2013) *International Journal of Molecular Sciences*, 14 (5), pp. 8963-8984.

DOI: 10.3390/ijms14058963

Pinato, G.*, COJOC, D.* (* equally contributed) Lien, L.T., Ansuini, A., Ban, J., D'Este, E., Torre, V.
Less than 5 Netrin-1 molecules initiate attraction but 200 Sema3A molecules are necessary for repulsion

(2012) *Scientific Reports*, 2, art. no. 00675.

DOI: 10.1038/srep00675

COJOC, D., Finaurini, S., Livshits, P., Gur, E., Shapira, A., Mico, V., Zalevsky, Z.

Toward fast malaria detection by secondary speckle sensing microscopy

(2012) *Biomedical Optics Express*, 3 (5), pp. 991-1005.

DOI: 10.1364/BOE.3.000991

COJOC, D., Finaurini, S., Livshits, P., Gur, E., Shapira, A., Mico, V., Zalevsky, Z.
Speckle based sensing device for fast detection of malaria
(2012) *Imaging Systems and Applications, ISA 2012* .

Pinato, G., Lien, L.T., D'Este, E., Torre, V., COJOC, D.
Neuronal chemotaxis by optically manipulated liposomes
(2011) *Journal of the European Optical Society*, 6, art. no. 11042, p. 19.
DOI: 10.2971/jeos.2011.11042

Santucci, S.C., Amenitsch, H., COJOC, D., Riekkel, C.
Optical tweezers for touchless sample manipulation in synchrotron radiation experiments
(2011) *Synchrotron Radiation and Structural Proteomics*, pp. 183-211.
DOI: 10.4032/9789814267939

Pinato, G., Raffaelli, T., D'Este, E., Tavano, F., COJOC, D.
Optical delivery of liposome encapsulated chemical stimuli to neuronal cells
(2011) *Journal of Biomedical Optics*, 16 (9), art. no. 095001.
DOI: 10.1117/1.3616133

COJOC, D.
Editorial: Special issue on optomechatronic technology in optical manipulation for biomedical applications
(2011) *International Journal of Optomechatronics*, 5 (3), pp. 189-190.
DOI: 10.1080/15599612.2011.614105

Tavano, F., Bonin, S., Pinato, G., Stanta, G., COJOC, D.
Custom-built optical tweezers for locally probing the viscoelastic properties of cancer cells
(2011) *International Journal of Optomechatronics*, 5 (3), pp. 234-248.
DOI: 10.1080/15599612.2011.604117

Santucci, S.C., COJOC, D., Amenitsch, H., Marmioli, B., Sartori, B., Burghammer, M., Schoeder, S., Dicola, E., Reynolds, M., Riekkel, C.
Optical tweezers for synchrotron radiation probing of trapped biological and soft matter objects in aqueous environments
(2011) *Analytical Chemistry*, 83 (12), pp. 4863-4870.
DOI: 10.1021/ac200515x

D'Este, E., Baj, G., Beuzer, P., Ferrari, E., Pinato, G., Tongiorgi, E., COJOC, D.
Use of optical tweezers technology for long-term, focal stimulation of specific subcellular neuronal compartments
(2011) *Integrative Biology*, 3 (5), pp. 568-577. Cited 13 times.
DOI: 10.1039/c0ib00102c

COJOC, D., Amenitsch, H., Ferrari, E., Santucci, S.C., Sartori, B., Rappolt, M., Marmioli, B., Burghammer, M., Riekkel, C.
Local x-ray structure analysis of optically manipulated biological micro-objects
(2010) *Applied Physics Letters*, 97 (24), art. no. 244101
DOI: 10.1063/1.3525941

Selvaggi, L., Ferrari, E., Moradi, A., Santucci, C., Beuzer, P., COJOC, D.
Optimized multi-view imaging improves the observation of optically manipulated non-spherical ps
(*Journal of Optics A: Pure and Applied Optics* (2010) 12 (035303))
(2010) *Journal of Optics A: Pure and Applied Optics*, 12 (4), art. no. 049801.
DOI: 10.1088/2040-8978/12/4/049801

Chursanova, M.V., Germash, L., Yukhymchuk, V.O., Dzhagan, M., Khodasevich, I.A., COJOC, D.
Optimization of porous silicon preparation technology for SERS applications
(2010) *Applied Surface Science*, 256 (11), pp. 3369-3373.
DOI: 10.1016/j.apsusc.2009.12.036

Garbin, V., Dollet, B., Overvelde, M., COJOC, D., Di Fabrizio, E., van Wijngaarden, L., Prosperetti, A., de Jong, N., Lohse, D., Versluis, M.
History force on coated microbubbles propelled by ultrasound
(2009) *Physics of Fluids*, 21 (9), art. no. 092003.
DOI: 10.1063/1.3227903

Garbin, V., Volpe, G., Ferrari, E., Versluis, M., COJOC, D., Petrov, D.
Mie scattering distinguishes the topological charge of an optical vortex: A homage to Gustav Mie
(2009) *New Journal of Physics*, 11, art. no. 013046.
DOI: 10.1088/1367-2630/11/1/013046

García, J., Micó, V., COJOC, D., Shpilman, E., Zalevsky, Z.
Full field of view super-resolution imaging via two static masks
(2008) *Journal of Physics: Conference Series*, 139, art. no. 012024.
DOI: 10.1088/1742-6596/139/1/012024

Mihailescu, M., Preda, A., COJOC, D., Scarlat, E., Preda, L.
Diffraction patterns from a phyllotaxis-type arrangement
(2008) *Optics and Lasers in Engineering*, 46 (11), pp. 802-809.
DOI: 10.1016/j.optlaseng.2008.06.004

Garbin, V., Volpe, G., Ferrari, E., Kozyreff, G., Versluis, M., Petrov, D., COJOC, D.
Mie scattering of a Laguerre-Gaussian beam for position detection of microbubbles
(2008) 2008 Conference on Quantum Electronics and Laser Science Conference on Lasers and Electro-Optics, CLEO/QELS, art. no. 4551264.
DOI: 10.1109/CLEO.2008.4551264

Connell, E., Giniatullina, A., Lai-Kee-Him, J., Tavare, R., Ferrari, E., Roseman, A., COJOC, D., Brisson, A.R., Davletov, B.
Cross-linking of Phospholipid Membranes is a Conserved Property of Calcium-sensitive Synaptotagmins
(2008) *Journal of Molecular Biology*, 380 (1), pp. 42-50.
DOI: 10.1016/j.jmb.2008.01.084

García, J., Micó, V., COJOC, D., Zalevsky, Z.
Full field of view super-resolution imaging based on two static gratings and white light illumination
(2008) *Applied Optics*, 47 (17), pp. 3080-3087.
DOI: 10.1364/AO.47.003080

COJOC, D., Ferrari, E., Garbin, V., Di Fabrizio, E., Amenitsch, H., Rappolt, M., Sartori, B., Laggner, P., Burghammer, M., Riek, C.
Scanning x-ray microdiffraction of optically manipulated liposomes
(2007) *Applied Physics Letters*, 91 (23), art. no. 234107.
DOI: 10.1063/1.2821245

Garbin, V., Dollet, B., Overvelde, M.L.J., De Jong, N., Lohse, D., Versluis, M., COJOC, D., Ferrari, E., Di Fabrizio, E.
Coupled dynamics of an isolated UCA microbubble pair
(2007) *Proceedings - IEEE Ultrasonics Symposium*, art. no. 4409767, pp. 757-760.
DOI: 10.1109/ULTSYM.2007.194

Mihailescu, M., Preda, A., COJOC, D., Scarlat, E., Preda, L.
Iterative algorithm analysis for phase-only diffractive control access system
(2007) *Proceedings of SPIE - The International Society for Optical Engineering*, 6785, art. no. 678513.

DOI: 10.1117/12.757874

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