

CURICULUM VITAE

Name and Surname: **Danut Adrian COJOC**

Note: I use Dan COJOC as short name and sign all my publications with this name

Birth date and place: 23/06/1962, Romania

Work Address:

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EDUCATION

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

CURRENT POSITION

- July 2004 – present: Senior Researcher (Primo Ricercatore), National Research Council of Italy (CNR), Institute of Materials (IOM), Trieste, Italy

PREVIOUS POSITIONS

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

FELLOWSHIPS

- October 2019 and February 2020: visiting scientist, Department of Biotechnology, University of Rijeka, Croatia (HR)
- October 2018, February-April 2019: CAS - PIFI visiting scientist (Chinese Academy of Sciences, President’s International Fellowship Initiative), Cixi Institute for Biomedical Engineering CNITECH – Ningbo, China, (CN)
- 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: INFN associate researcher, diffractive optics design and nanofabrication, optical microscopy, Istituto Nazionale per la Fisica della Materia INFN – 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 a background in Optical Engineering and Technical Physics, Dan Cojoc has been working in the fields of Optics, Nanoscience and Biophotonics since 1990. His scientific activity and skills are highly interdisciplinary. During his career he has developed numerous advanced microscopy and spectroscopy instrumentation and techniques for applications in microscopy, nanotechnology, biophysics, cancer cell and neurobiology.

Dan has designed and implemented more than 20 optical tweezers microscopes and integrated them with microfluidics, X-ray diffraction, force measurement, Raman spectroscopy, holographic microscopy, laser surgery for the study of biological samples as living cells in physiological conditions. Three setups are running in his lab at CNR-IOM, 1 in the Neurobiology lab at SISSA, 1 in the Neuroscience lab at the University of Trieste. The other setups are located either in Italy (Milan, Catanzaro, Genova) or abroad (US, France, Netherlands, Romania, Venezuela, China).

The results of his research activity have been published in 135 international publications (h-index 28, citations 2500 - source: Google Scholar May 2020). He is author/co-author/editor of 11 book chapters/ books and keeps 2 international patents. He has more than 30 invited lectures at international conferences and workshops and 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).

Some of the most important scientific / technological contributions published in his papers are (listed from most recent):

1. Use of optical tweezers to stimulate the cell membranes with piconewton forces in mechanotransduction studies:
2018 Front. Cell. Neurosci. 12, 130
DOI: 10.3389/fncel.2018.00130
<https://www.frontiersin.org/articles/10.3389/fncel.2018.00130/full>
2. show how glucose-coated magnetic nanoparticles 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>

3. 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>
4. pioneering speckle microscopy and develop 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 biochemically 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 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. pioneering 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 3D 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>

RESEARCH PROJECTS AND FUNDINGS

1. 2017-2018: PI CNR-IOM for the PRO-FESR project Antibioptica (free marker analysis of human urine samples) – 110 k€ / 450 k€
2. 2010 – 2014: PI CNR – IOM for 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: PI CNR – IOM for the ESRF-CNR-Austrian Academy of Science collaboration project: Optical sample manipulation microscope for SAXS experimentst – 130 / 310 k€
5. 2009 – 2012 CNR – IOM: researcher in the EU NFFA (Nanoscience Foundries & Fine Analysis) project, responsabile 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 - present: faculty member of the PhD Course in Nanotechnology at the University of Trieste (UT).
- 2013 – present associate member of the PhD Course in Neurobiology at SISSA (International School for Advances Studies), Trieste, Italy.
- 2018/2020: adjunct professor at UT, Faculty of Physics, course Experimental Biophysics
- 2008-2009, 2011-2012: adjunct professor 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
- 2018 – lectures of Experimental Biophysics at UT, Faculty of Physics
- 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

- 2006 – present, supervised 5 PhD students in Neurobiology at SISSA (G. D'Arrigo – 2019, F. Falleroni – 2018, X. Nguyen – 2018, F. Iseppon – 2017, R. Shahapure – 2007)
- 2007 – present, supervised 9 PhD theses in 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 – 2020 year, M. Lima 3rd year)
- 2005 – present, supervised 4 PhD students 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 1 master thesis in Physics (E. Goi - 2015) and 3 theses for the Bachelor degree in Physics at the University of Trieste (UT)
- 2007 – present supervised 4 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 more than 30 master theses in Engineering at the University “Politehnica” of Bucharest.

Dan COJOC
LIST OF PUBLICATIONS

Updated at 5th May 2020, 135 publications, listed from most recent

135.

Koya, AN, Cunha, J., Guo, TL, Toma, A., Garoli D., Wang T., Juodkazis, S., COJOC, D., Proietti Zaccaria, R.
Novel Plasmonic Nanocavities for Optical Trapping-Assisted Biosensing Applications
Advanced Optical Materials 8 (7), 1901481

134.

Bianco, P., Pertici, I., Bongini, L., Bianchi, G., COJOC, D., Kellermayer, MS., Lombardi, V.
A Myosin II Nanomachine Mimicking the Striated Muscle
(2019) *Biophysical Journal* 116 (3), 8a-9a
DOI: 10.1016/j.bpj.2018.11.081

133.

Nguyen, XTA., Tran, TH., COJOC, D., Legname, G.
Copper Binding Regulates Cellular Prion Protein Function
(2019) *Mol. Neurobio.*, p. 1-13
DOI:10.1007/s12035-019-1510-9)

132.

Wang, H., Wang, HY., Sun, HB., Cerea, A., Toma, A., De Angelis, F., Jin, X., Razzari, I., COJOC, D., Catone, D.,
Huang, F., Proietti Zaccaria, R.
Strongly coupled hybrid states: dynamics of strongly coupled hybrid states by transient absorption
spectroscopy
(2018) *Adv. Funct. Mater.* 28(48) 1870342
DOI: 10.1002/adfm.201870342

131.

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*, 9(1) 3532
DOI: 10.1038/s41467-018-06073-9

130.

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

129.

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.
Glial-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

128.

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

127.

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

126.

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

125.

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

124.

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

123.

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

122.

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

121.

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

120.

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

119.

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

118.

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

117.

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

116.

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

115.

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

114.

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

113.

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

112.

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

111.

COJOC, D.

Local probing and stimulation of neuronal cells by optical manipulation - invited
(2014) Proceedings of SPIE - The International Society for Optical Engineering, 9164, art. no. 91640S,
Invited.

DOI: 10.1117/12.2064273

110.

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

109.

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

108.

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

107.

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

106.

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

105.

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* .

104.

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

103.

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

102.

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

101.

[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

100.

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

99.

Santucci, S.C., [COJOC, D.](#), Amenitsch, H., Marmioli, B., Sartori, B., Burghammer, M., Schoeder, S., Dicola, E., Reynolds, M., Riekel, 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

98.

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

97.

[COJOC, D.](#), Amenitsch, H., Ferrari, E., Santucci, S.C., Sartori, B., Rappolt, M., Marmioli, B., Burghammer, M., Riekel, 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

96.

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

95.

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

94.

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

93.

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

92.

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

91.

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.

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