

Antonio Sasso

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

1,051
citations

18
h-index

31
g-index

67
ext. papers

1,289
ext. citations

4.6
avg, IF

4.09
L-index

#	Paper	IF	Citations
58	Optogalvanic spectroscopy. <i>Reviews of Modern Physics</i> , 1990 , 62, 603-644	40.5	167
57	Spectroscopical and mechanical characterization of normal and thalassemic red blood cells by Raman Tweezers. <i>Optics Express</i> , 2008 , 16, 7943-57	3.3	96
56	Optical angular momentum transfer to transparent isotropic particles using laser beam carrying zero average angular momentum. <i>Optics Express</i> , 2002 , 10, 871-8	3.3	62
55	Surface-enhanced Raman imaging of cell membrane by a highly homogeneous and isotropic silver nanostructure. <i>Nanoscale</i> , 2015 , 7, 8593-606	7.7	50
54	Step-by-step guide to the realization of advanced optical tweezers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, B84	1.7	47
53	Nanoscale chemical imaging of Bacillus subtilis spores by combining tip-enhanced Raman scattering and advanced statistical tools. <i>ACS Nano</i> , 2014 , 8, 12300-9	16.7	46
52	Raman Tweezers as a Diagnostic Tool of Hemoglobin-Related Blood Disorders. <i>Sensors</i> , 2008 , 8, 7818-7838	3.8	44
51	Label-free probing of G-quadruplex formation by surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2011 , 83, 6849-55	7.8	41
50	Optical forces acting on Rayleigh particle placed into interference field. <i>Optics Communications</i> , 2004 , 240, 401-415	2	32
49	A new method to improve the clinical evaluation of cystic fibrosis patients by mucus viscoelastic properties. <i>PLoS ONE</i> , 2014 , 9, e82297	3.7	28
48	Nanoscale engineering of two-dimensional disordered hyperuniform block-copolymer assemblies. <i>Physical Review E</i> , 2015 , 92, 050601	2.4	26
47	Surface charge and hydrodynamic coefficient measurements of Bacillus subtilis spore by optical tweezers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 116, 568-75	6	24
46	Raman microspectroscopy analysis in the treatment of acanthamoeba keratitis. <i>PLoS ONE</i> , 2013 , 8, e72137	3.7	22
45	Cage Size and Jump Precursors in Glass-Forming Liquids: Experiment and Simulations. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1562-1568	6.4	21
44	Connecting short and long time dynamics in hard-sphere-like colloidal glasses. <i>Soft Matter</i> , 2015 , 11, 622-6	3.6	19
43	Multiple-Particle-Tracking to investigate viscoelastic properties in living cells. <i>Methods</i> , 2010 , 51, 20-6	4.6	19
42	Flexibility of the programme of spore coat formation in Bacillus subtilis: bypass of CotE requirement by over-production of CotH. <i>PLoS ONE</i> , 2013 , 8, e74949	3.7	19

41	Raman spectroscopy as a new tool for early detection of bacteria in patients with cystic fibrosis. <i>Laser Physics Letters</i> , 2013 , 10, 075603	1.5	18
40	Raman spectroscopy of <i>Xenopus laevis</i> oocytes. <i>Methods</i> , 2010 , 51, 27-36	4.6	17
39	Speed-dependent and correlation effects on the line shape of acetylene. <i>Physical Review A</i> , 2005 , 72,	2.6	16
38	High frequency viscoelastic behaviour of low molecular weight hyaluronic acid water solutions. <i>Biorheology</i> , 2007 , 44, 403-18	1.7	15
37	Raman-microscopy investigation of vitrification-induced structural damages in mature bovine oocytes. <i>PLoS ONE</i> , 2017 , 12, e0177677	3.7	14
36	Experimental and theoretical study of the transient rotation of isotropic transparent microparticles in astigmatic optical tweezers. <i>Optics Communications</i> , 2004 , 230, 337-345	2	13
35	Enhancement factor statistics of surface enhanced Raman scattering in multiscale heterostructures of nanoparticles. <i>Journal of Chemical Physics</i> , 2016 , 145, 054708	3.9	13
34	Nanometal Skin of Plasmonic Heterostructures for Highly Efficient Near-Field Scattering Probes. <i>Scientific Reports</i> , 2016 , 6, 31113	4.9	12
33	Experimental indication of a nuclear volume contribution to the isotope shift of atomic oxygen. <i>Optics Communications</i> , 1990 , 78, 158-162	2	12
32	Simultaneous measurements of electrophoretic and dielectrophoretic forces using optical tweezers. <i>Optics Express</i> , 2015 , 23, 9363-8	3.3	11
31	Dark spots along slowly scaling chains of plasmonic nanoparticles. <i>Optics Express</i> , 2016 , 24, 13584-9	3.3	11
30	Real-time actin-cytoskeleton depolymerization detection in a single cell using optical tweezers. <i>Optics Express</i> , 2007 , 15, 7922-32	3.3	10
29	Many facets of intermittent dynamics in colloidal and molecular glasses. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 532, 87-96	5.1	9
28	Long-term influence of fluid inertia on the diffusion of a Brownian particle. <i>Physical Review E</i> , 2014 , 90, 042309	2.4	9
27	Detection of HCl and HF by TTFMS and WMS. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 63, 923-8	4.4	9
26	Rapid Fickian Yet Non-Gaussian Diffusion after Subdiffusion. <i>Physical Review Letters</i> , 2021 , 126, 158003	7.4	9
25	Synthesis and label free characterization of a bimolecular PNA homo quadruplex. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1222-1228	4	8
24	Optical manipulation of charged microparticles in polar fluids. <i>Electrophoresis</i> , 2013 , 34, 3141-9	3.6	8

23	Blinking Optical Tweezers for microrheology measurements of weak elasticity complex fluids. <i>Optics Express</i> , 2010 , 18, 2116-26	3.3	8
22	Mechanical changes of living oocytes at maturation investigated by multiple particle tracking. <i>Applied Physics Letters</i> , 2009 , 95, 093702	3.4	8
21	Raman Analysis of Tear Fluid Alteration Following Contact Lense Use. <i>Sensors</i> , 2019 , 19,	3.8	6
20	Insights into the interaction of the N-terminal amyloidogenic polypeptide of ApoA-I with model cellular membranes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 795-801	4	5
19	Coral-like plasmonic probes for tip-enhanced Raman spectroscopy. <i>Nanoscale</i> , 2020 , 12, 24376-24384	7.7	5
18	Assessment of conjunctival microvilli abnormality by micro-Raman analysis - by G. Rusciano et al. <i>Journal of Biophotonics</i> , 2016 , 9, 551-9	3.1	5
17	Revealing membrane alteration in cellsoverexpressing CA IX and EGFR by Surface-Enhanced Raman Scattering. <i>Scientific Reports</i> , 2019 , 9, 1832	4.9	5
16	Experimental study of the mechanisms leading to the formation of glistenings in intraocular lenses by Raman spectroscopy. <i>Biomedical Optics Express</i> , 2019 , 10, 1870-1881	3.5	4
15	Mapping electric fields generated by microelectrodes using optically trapped charged microspheres. <i>Lab on A Chip</i> , 2011 , 11, 4113-6	7.2	4
14	Influence of rotational force fields on the determination of the work done on a driven Brownian particle. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 044006	1.7	4
13	Cell Imaging by Spontaneous and Amplified Raman Spectroscopies. <i>Journal of Spectroscopy</i> , 2017 , 2017, 1-9	1.5	3
12	High- and low-frequency mechanical properties of living starfish oocytes. <i>Journal of Biophotonics</i> , 2011 , 4, 324-34	3.1	3
11	Laser measurements of the 36,38,40Ar isotope shifts in the near infrared. <i>Optics Communications</i> , 1998 , 149, 272-276	2	2
10	Optical tweezers calibration: a quantitative tool for local viscosity investigation (Invited Paper) 2005 ,		2
9	A model-system of Fickian yet non-Gaussian diffusion: light patterns in place of complex matter. <i>Soft Matter</i> , 2021 ,	3.6	2
8	Novosphingobium sp. PP1Y as a novel source of outer membrane vesicles. <i>Journal of Microbiology</i> , 2019 , 57, 498-508	3	1
7	Characterization of surface properties of bacterial spores using Optical Tweezers 2015 ,		1
6	Laser Spectroscopy 2010 , 463-508		1

- 5 A simple and reliable approach for the fabrication of nanoporous silver patterns for surface-enhanced Raman spectroscopy applications. *Scientific Reports*, **2021**, 11, 22295 4.9 1
- 4 Symmetry-Induced Light Confinement in a Photonic Quasicrystal-Based Mirrorless Cavity. *Crystals*, **2016**, 6, 111 2.3 1
- 3 Optical tweezers as a probe for oligodeoxyribonucleotide structuration. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1295-9 1.4
- 2 Optical tweezers as a tool for microrheology of simplex and complex fluids **2004**, 5514, 487
- 1 Single-Cell Photothermal Analysis Induced by MoS Nanoparticles by Raman Spectroscopy.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 844011 5.8