

# Antonio Sasso

## List of Publications by Year in Descending Order

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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	Single-Cell Photothermal Analysis Induced by MoS Nanoparticles by Raman Spectroscopy.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 844011	5.8	
57	A model-system of Fickian yet non-Gaussian diffusion: light patterns in place of complex matter. <i>Soft Matter</i> , <b>2021</b> ,	3.6	2
56	A simple and reliable approach for the fabrication of nanoporous silver patterns for surface-enhanced Raman spectroscopy applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 22295	4.9	1
55	Rapid Fickian Yet Non-Gaussian Diffusion after Subdiffusion. <i>Physical Review Letters</i> , <b>2021</b> , 126, 158003	7.4	9
54	Coral-like plasmonic probes for tip-enhanced Raman spectroscopy. <i>Nanoscale</i> , <b>2020</b> , 12, 24376-24384	7.7	5
53	Novosphingobium sp. PP1Y as a novel source of outer membrane vesicles. <i>Journal of Microbiology</i> , <b>2019</b> , 57, 498-508	3	1
52	Raman Analysis of Tear Fluid Alteration Following Contact Lense Use. <i>Sensors</i> , <b>2019</b> , 19,	3.8	6
51	Experimental study of the mechanisms leading to the formation of glistenings in intraocular lenses by Raman spectroscopy. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 1870-1881	3.5	4
50	Revealing membrane alteration in cellsoverexpressing CA IX and EGFR by Surface-Enhanced Raman Scattering. <i>Scientific Reports</i> , <b>2019</b> , 9, 1832	4.9	5
49	Cage Size and Jump Precursors in Glass-Forming Liquids: Experiment and Simulations. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1562-1568	6.4	21
48	Synthesis and label free characterization of a bimolecular PNA homo quadruplex. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 1222-1228	4	8
47	Cell Imaging by Spontaneous and Amplified Raman Spectroscopies. <i>Journal of Spectroscopy</i> , <b>2017</b> , 2017, 1-9	1.5	3
46	Raman-microscopy investigation of vitrification-induced structural damages in mature bovine oocytes. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177677	3.7	14
45	Many facets of intermittent dynamics in colloidal and molecular glasses. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 532, 87-96	5.1	9
44	Dark spots along slowly scaling chains of plasmonic nanoparticles. <i>Optics Express</i> , <b>2016</b> , 24, 13584-9	3.3	11
43	Nanometal Skin of Plasmonic Heterostructures for Highly Efficient Near-Field Scattering Probes. <i>Scientific Reports</i> , <b>2016</b> , 6, 31113	4.9	12
42	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> , <b>2016</b> , 1860, 795-801	4	5

41	Symmetry-Induced Light Confinement in a Photonic Quasicrystal-Based Mirrorless Cavity. <i>Crystals</i> , <b>2016</b> , 6, 111	2.3	1
40	Enhancement factor statistics of surface enhanced Raman scattering in multiscale heterostructures of nanoparticles. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 054708	3.9	13
39	Assessment of conjunctival microvilli abnormality by micro-Raman analysis - by G. Rusciano et al. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 551-9	3.1	5
38	Surface-enhanced Raman imaging of cell membrane by a highly homogeneous and isotropic silver nanostructure. <i>Nanoscale</i> , <b>2015</b> , 7, 8593-606	7.7	50
37	Simultaneous measurements of electrophoretic and dielectrophoretic forces using optical tweezers. <i>Optics Express</i> , <b>2015</b> , 23, 9363-8	3.3	11
36	Characterization of surface properties of bacterial spores using Optical Tweezers <b>2015</b> ,		1
35	Step-by-step guide to the realization of advanced optical tweezers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, B84	1.7	47
34	Connecting short and long time dynamics in hard-sphere-like colloidal glasses. <i>Soft Matter</i> , <b>2015</b> , 11, 622-6	3.6	19
33	Nanoscale engineering of two-dimensional disordered hyperuniform block-copolymer assemblies. <i>Physical Review E</i> , <b>2015</b> , 92, 050601	2.4	26
32	Surface charge and hydrodynamic coefficient measurements of Bacillus subtilis spore by optical tweezers. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 116, 568-75	6	24
31	A new method to improve the clinical evaluation of cystic fibrosis patients by mucus viscoelastic properties. <i>PLoS ONE</i> , <b>2014</b> , 9, e82297	3.7	28
30	Long-term influence of fluid inertia on the diffusion of a Brownian particle. <i>Physical Review E</i> , <b>2014</b> , 90, 042309	2.4	9
29	Nanoscale chemical imaging of Bacillus subtilis spores by combining tip-enhanced Raman scattering and advanced statistical tools. <i>ACS Nano</i> , <b>2014</b> , 8, 12300-9	16.7	46
28	Raman spectroscopy as a new tool for early detection of bacteria in patients with cystic fibrosis. <i>Laser Physics Letters</i> , <b>2013</b> , 10, 075603	1.5	18
27	Optical manipulation of charged microparticles in polar fluids. <i>Electrophoresis</i> , <b>2013</b> , 34, 3141-9	3.6	8
26	Raman microspectroscopy analysis in the treatment of acanthamoeba keratitis. <i>PLoS ONE</i> , <b>2013</b> , 8, e72137	3.7	22
25	Flexibility of the programme of spore coat formation in Bacillus subtilis: bypass of CotE requirement by over-production of CotH. <i>PLoS ONE</i> , <b>2013</b> , 8, e74949	3.7	19
24	High- and low-frequency mechanical properties of living starfish oocytes. <i>Journal of Biophotonics</i> , <b>2011</b> , 4, 324-34	3.1	3

23	Mapping electric fields generated by microelectrodes using optically trapped charged microspheres. <i>Lab on A Chip</i> , <b>2011</b> , 11, 4113-6	7.2	4
22	Influence of rotational force fields on the determination of the work done on a driven Brownian particle. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 044006	1.7	4
21	Label-free probing of G-quadruplex formation by surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6849-55	7.8	41
20	Laser Spectroscopy <b>2010</b> , 463-508		1
19	Blinking Optical Tweezers for microrheology measurements of weak elasticity complex fluids. <i>Optics Express</i> , <b>2010</b> , 18, 2116-26	3.3	8
18	Multiple-Particle-Tracking to investigate viscoelastic properties in living cells. <i>Methods</i> , <b>2010</b> , 51, 20-6	4.6	19
17	Raman spectroscopy of <i>Xenopus laevis</i> oocytes. <i>Methods</i> , <b>2010</b> , 51, 27-36	4.6	17
16	Mechanical changes of living oocytes at maturation investigated by multiple particle tracking. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 093702	3.4	8
15	Spectroscopical and mechanical characterization of normal and thalassemic red blood cells by Raman Tweezers. <i>Optics Express</i> , <b>2008</b> , 16, 7943-57	3.3	96
14	Raman Tweezers as a Diagnostic Tool of Hemoglobin-Related Blood Disorders. <i>Sensors</i> , <b>2008</b> , 8, 7818-7838	3.8	44
13	Optical tweezers as a probe for oligodeoxyribonucleotide structuration. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , <b>2007</b> , 26, 1295-9	1.4	
12	Real-time actin-cytoskeleton depolymerization detection in a single cell using optical tweezers. <i>Optics Express</i> , <b>2007</b> , 15, 7922-32	3.3	10
11	High frequency viscoelastic behaviour of low molecular weight hyaluronic acid water solutions. <i>Biorheology</i> , <b>2007</b> , 44, 403-18	1.7	15
10	Detection of HCl and HF by TTFMS and WMS. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2006</b> , 63, 923-8	4.4	9
9	Optical tweezers calibration: a quantitative tool for local viscosity investigation (Invited Paper) <b>2005</b> ,		2
8	Speed-dependent and correlation effects on the line shape of acetylene. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	16
7	Optical forces acting on Rayleigh particle placed into interference field. <i>Optics Communications</i> , <b>2004</b> , 240, 401-415	2	32
6	Experimental and theoretical study of the transient rotation of isotropic transparent microparticles in astigmatic optical tweezers. <i>Optics Communications</i> , <b>2004</b> , 230, 337-345	2	13

5	Optical tweezers as a tool for microrheology of simplex and complex fluids <b>2004</b> , 5514, 487		
4	Optical angular momentum transfer to transparent isotropic particles using laser beam carrying zero average angular momentum. <i>Optics Express</i> , <b>2002</b> , 10, 871-8	33	62
3	Laser measurements of the <sup>36,38,40</sup> Ar isotope shifts in the near infrared. <i>Optics Communications</i> , <b>1998</b> , 149, 272-276	2	2
2	Optogalvanic spectroscopy. <i>Reviews of Modern Physics</i> , <b>1990</b> , 62, 603-644	40.5	167
1	Experimental indication of a nuclear volume contribution to the isotope shift of atomic oxygen. <i>Optics Communications</i> , <b>1990</b> , 78, 158-162	2	12