

# Raffaele Velotta

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7697138/raffaele-velotta-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

146  
papers

6,108  
citations

34  
h-index

75  
g-index

164  
ext. papers

6,839  
ext. citations

4  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
146	Double-Resonant Nanostructured Gold Surface for Multiplexed Detection.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	2
145	Nanostructured Surfaces as Plasmonic Biosensors: A Review (Adv. Mater. Interfaces 2/2022). <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2270009	4.6	0
144	Solid-state optical properties of self-assembling amyloid-like peptides with different charged states at the terminal ends.. <i>Scientific Reports</i> , <b>2022</b> , 12, 759	4.9	1
143	Plasmonic Nanomaterials for Colorimetric Biosensing: A Review. <i>Chemosensors</i> , <b>2022</b> , 10, 136	4	2
142	Loading of Polydimethylsiloxane with a Human ApoB-Derived Antimicrobial Peptide to Prevent Bacterial Infections.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
141	Analysis of the optical response of a SARS-CoV-2-directed colorimetric immunosensor. <i>AIP Advances</i> , <b>2021</b> , 11, 065319	1.5	4
140	Optimized Identification of High-Grade Prostate Cancer by Combining Different PSA Molecular Forms and PSA Density in a Deep Learning Model. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	4
139	Randomly positioned gold nanoparticles as fluorescence enhancers in apta-immunosensor for malaria test. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 88	5.8	10
138	Fluorescence Emission of Self-assembling Amyloid-like Peptides: Solution versus Solid State. <i>ChemPhysChem</i> , <b>2021</b> , 22, 2215-2221	3.2	3
137	Screen Printed Based Impedimetric Immunosensor for Rapid Detection of in Drinking Water. <i>Sensors</i> , <b>2020</b> , 20,	3.8	28
136	The Union Is Strength: The Synergic Action of Long Fatty Acids and a Bacteriophage against Biofilm. <i>Microorganisms</i> , <b>2020</b> , 9,	4.9	6
135	Colorimetric Test for Fast Detection of SARS-CoV-2 in Nasal and Throat Swabs. <i>ACS Sensors</i> , <b>2020</b> , 5, 3043-3048	9.2	76
134	LSPR-based colorimetric immunosensor for rapid and sensitive 17Estradiol detection in tap water. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 308, 127699	8.5	28
133	Ultrasensitive antibody-aptamer plasmonic biosensor for malaria biomarker detection in whole blood. <i>Nature Communications</i> , <b>2020</b> , 11, 6134	17.4	29
132	Time-gated luminescence imaging of positively charged poly-l-lysine-coated highly microporous silicon nanoparticles in living Hydra polyp. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000272	3.1	6
131	Core-Shell Magnetic Nanoparticles for Highly Sensitive Magnetoelastic Immunosensor. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
130	Effects of human antimicrobial cryptides identified in apolipoprotein B depend on specific features of bacterial strains. <i>Scientific Reports</i> , <b>2019</b> , 9, 6728	4.9	21

129	Biomimetic hydroxyapatite nanocrystals are an active carrier for bacteriophages. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 2219-2232	7.3	18
128	Photoemissive properties and stability of undecylenic acid-modified porous silicon nanoparticles in physiological medium. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 113701	3.4	3
127	Ring laser gyroscopes in the underground Gran Sasso Laboratories. <i>Quantum Electronics</i> , <b>2019</b> , 49, 195-198		3
126	Green synthesis of conductive polyaniline by laccase using a DNA template. <i>Engineering in Life Sciences</i> , <b>2019</b> , 19, 631-642	3.4	7
125	Quartz Crystal Microbalance Sensors: New Tools for the Assessment of Organic Threats to the Quality of Water. <i>Handbook of Environmental Chemistry</i> , <b>2019</b> , 315-342	0.8	1
124	A multi-scale time-resolved study of photoactivated dynamics in 5-benzyl uracil, a model for DNA/protein interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 26301-26310	3.6	4
123	Biosensor surface functionalization by a simple photochemical immobilization of antibodies: experimental characterization by mass spectrometry and surface enhanced Raman spectroscopy. <i>Analyst, The</i> , <b>2019</b> , 144, 6871-6880	5	22
122	Biosensor for Point-of-Care Analysis of Immunoglobulins in Urine by Metal Enhanced Fluorescence from Gold Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3753-3762	9.5	32
121	Colorimetric Immunosensor by Aggregation of Photochemically Functionalized Gold Nanoparticles. <i>ACS Omega</i> , <b>2018</b> , 3, 3805-3812	3.9	48
120	Self-Assembling of Fmoc-GC Peptide Nucleic Acid Dimers into Highly Fluorescent Aggregates. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 4729-4735	4.8	16
119	QCM-based immunosensor for rapid detection of Salmonella Typhimurium in food. <i>Scientific Reports</i> , <b>2018</b> , 8, 16137	4.9	47
118	Label-Free Detection of Gliadin in Food by Quartz Crystal Microbalance-Based Immunosensor. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 1281-1289	5.7	17
117	Flexible immunosensor for the detection of salivary Amylase in body fluids. <i>Talanta</i> , <b>2017</b> , 174, 52-58	6.2	29
116	Effective antibodies immobilization and functionalized nanoparticles in a quartz-crystal microbalance-based immunosensor for the detection of parathion. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171754	3.7	36
115	Time-resolved analysis of DNA-protein interactions in living cells by UV laser pulses. <i>Scientific Reports</i> , <b>2017</b> , 7, 11725	4.9	9
114	Vmh2 hydrophobin as a tool for the development of "self-immobilizing" enzymes for biosensing. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 46-52	4.9	28
113	Femtosecond UV-laser pulses to unveil protein-protein interactions in living cells. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 637-48	10.3	25
112	Simple and Flexible Model for Laser-Driven Antibody-Gold Surface Interactions: Functionalization and Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21762-9	9.5	4

111	Vmh2 hydrophobin layer entraps glucose: A quantitative characterization by label-free optical and gravimetric methods. <i>Applied Surface Science</i> , <b>2016</b> , 364, 201-207	6.7	9
110	Single Molecule Characterization of UV-Activated Antibodies on Gold by Atomic Force Microscopy. <i>Langmuir</i> , <b>2016</b> , 32, 8084-91	4	24
109	Temporal and spectral characterization of femtosecond deep-UV chirped pulses. <i>Laser Physics Letters</i> , <b>2015</b> , 12, 025302	1.5	8
108	Detection of parathion and patulin by quartz-crystal microbalance functionalized by the photonics immobilization technique. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 224-9	11.8	70
107	Nano-machining of biosensor electrodes through gold nanoparticles deposition produced by femtosecond laser ablation. <i>Applied Physics B: Lasers and Optics</i> , <b>2015</b> , 119, 497-501	1.9	6
106	Photophysics and photochemistry of a DNA-protein cross-linking model: a synergistic approach combining experiments and theory. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4983-92	3.4	12
105	Nano- and femtosecond UV laser pulses to immobilize biomolecules onto surfaces with preferential orientation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 185-190	2.6	3
104	Analysis of chromatin-nuclear receptor interactions by laser-chromatin immunoprecipitation. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1204, 25-34	1.4	2
103	Analysis of simulated fluorescence intensities decays by a new maximum entropy method algorithm. <i>Journal of Fluorescence</i> , <b>2013</b> , 23, 203-11	2.4	10
102	Ultraviolet laser-induced cross-linking in peptides. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 1660-8	2.2	30
101	Low-lying excited-states of 5-benzyluracil. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7161-73	3.6	11
100	Detection of parathion pesticide by quartz crystal microbalance functionalized with UV-activated antibodies. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6392-7	7.8	55
99	Influence of generalized focusing of few-cycle Gaussian pulses in attosecond pulse generation. <i>Optics Express</i> , <b>2013</b> , 21, 24991-9	3.3	11
98	Isolated Attosecond Pulse Generation by Two-Mid-IR Laser Fields. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2012</b> , 18, 239-247	3.8	16
97	Nonlinear protein - nucleic acid crosslinking induced by femtosecond UV laser pulses in living cells. <i>Laser Physics Letters</i> , <b>2012</b> , 9, 234-239	1.5	21
96	Single attosecond pulse generation by two laser fields <b>2012</b> ,		1
95	Two-color mid-IR optical parametric amplifier for attosecond pulse generation <b>2012</b> ,		2
94	Light assisted antibody immobilization for bio-sensing. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 3223-31	3.5	48

93	Gating of high-order harmonics generated by incommensurate two-color mid-IR laser pulses. <i>Laser Physics Letters</i> , <b>2011</b> , 8, 875-879	1.5	30
92	Single attosecond light pulses from multi-cycle laser sources. <i>Journal of Modern Optics</i> , <b>2011</b> , 58, 1585-1610	1.1	40
91	Glucose sensing by time-resolved fluorescence of sol-gel immobilized glucose oxidase. <i>Sensors</i> , <b>2011</b> , 11, 3483-97	3.8	25
90	Ultra-fast dynamic imaging: an overview of current techniques, their capabilities and future prospects. <i>Journal of Modern Optics</i> , <b>2010</b> , 57, 916-952	1.1	23
89	Revealing molecular structure and dynamics through high-order harmonic generation driven by mid-IR fields. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	76
88	Ultra-fast dynamic imaging of matter. <i>Journal of Modern Optics</i> , <b>2010</b> , 57, 915-915	1.1	0
87	Measurement of the two-photon absorption cross-section of liquid argon with a time projection chamber. <i>New Journal of Physics</i> , <b>2010</b> , 12, 113024	2.9	22
86	Extension of high harmonic spectroscopy in molecules by a 1300 nm laser field. <i>Optics Express</i> , <b>2010</b> , 18, 3174-80	3.3	55
85	Interplay between group-delay-dispersion-induced polarization gating and ionization to generate isolated attosecond pulses from multicycle lasers. <i>Optics Letters</i> , <b>2010</b> , 35, 2798-800	3	32
84	High harmonic generation spectroscopy of hydrocarbons. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 241103	3.4	42
83	Polarization, ionization and spatial gates in single attosecond pulse generation. <i>Springer Series in Chemical Physics</i> , <b>2009</b> , 920-922	0.3	
82	Generation and application of high energy, 30 fs pulses at 527 nm by hollow-fiber compression technique. <i>European Physical Journal: Special Topics</i> , <b>2009</b> , 175, 11-14	2.3	2
81	Generating single attosecond pulse using multi-cycle lasers in a polarization gate. <i>Optics Express</i> , <b>2009</b> , 17, 17700-10	3.3	8
80	Ultrafast science and development at the Artemis facility <b>2009</b> ,		18
79	Single isolated attosecond pulse from multicycle lasers. <i>Optics Letters</i> , <b>2008</b> , 33, 2943-5	3	38
78	Generation of high energy, 30 fs pulses at 527 nm by hollow-fiber compression technique. <i>Optics Express</i> , <b>2008</b> , 16, 3527-36	3.3	8
77	Measurement of electronic structure from high harmonic generation in non-adiabatically aligned polyatomic molecules. <i>New Journal of Physics</i> , <b>2008</b> , 10, 025008	2.9	19
76	Probing Molecular Structure and Dynamics by Laser-Driven Electron Recollisions. <i>Springer Series in Optical Sciences</i> , <b>2008</b> , 209-224	0.5	1

75	Probing electron dynamics by ellipticity effects in molecular high harmonic generation. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 1063-1074	1.1	2
74	A mass spectrometric study of gasoline anti-knocking additives. <i>International Journal of Mass Spectrometry</i> , <b>2007</b> , 262, 105-113	1.9	5
73	Beyond the single-atom response in isolated attosecond-pulse generation. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	31
72	Probing orbital structure of polyatomic molecules by high-order harmonic generation. <i>Physical Review Letters</i> , <b>2007</b> , 98, 203007	7.4	124
71	Hollow-fiber compression of visible, 200 fs laser pulses to 40 fs pulse duration. <i>Optics Letters</i> , <b>2007</b> , 32, 1866-8	3	8
70	Quantum Interference in Aligned Molecules. <i>Springer Series in Optical Sciences</i> , <b>2007</b> , 361-366	0.5	
69	Probing two-centre interference in molecular high harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2006</b> , 39, S457-S466	1.3	28
68	High-order harmonic generation in alkanes. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	13
67	Molecular orbital dependence of high-order harmonic generation. <i>Journal of Modern Optics</i> , <b>2006</b> , 53, 97-111	1.1	6
66	Isolated single-cycle attosecond pulses. <i>Science</i> , <b>2006</b> , 314, 443-6	33.3	1265
65	Controlling two-center interference in molecular high harmonic generation. <i>Physical Review Letters</i> , <b>2005</b> , 95, 153902	7.4	299
64	Ion kinetic energy distributions and cross sections for the electron impact ionization of ethyl tert-butyl ether. <i>Chemical Physics Letters</i> , <b>2005</b> , 415, 351-356	2.5	3
63	Characterization of LaMnO <sub>3</sub> laser ablation in oxygen by ion probe and optical emission spectroscopy. <i>Applied Surface Science</i> , <b>2005</b> , 248, 45-49	6.7	25
62	An algorithm to determine cirrus properties from analysis of multiple-scattering influence on lidar signals. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 80, 609-615	1.9	14
61	Dependence upon the molecular and atomic ground state of higher-order harmonic generation in the few-optical-cycle regime. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	16
60	Signatures of molecular structure in the strong-field response of aligned molecules. <i>Journal of Modern Optics</i> , <b>2005</b> , 52, 465-478	1.1	31
59	Electron and nuclear dynamics of a molecular ion in an intense laser field. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	10
58	Dynamical medium depletion in high-order above-threshold ionization with few-cycle laser pulses. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	14

57	Diagnostics of laser ablated plasma plumes. <i>Thin Solid Films</i> , <b>2004</b> , 453-454, 562-572	2.2	58
56	Measurement of the $\beta$ decay spectrum with the ICARUS liquid Argon TPC. <i>European Physical Journal C</i> , <b>2004</b> , 33, 233-241	4.2	41
55	Generation of silicon nanoparticles via femtosecond laser ablation in vacuum. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4502-4504	3.4	180
54	Study of the plasma plume generated during near IR femtosecond laser irradiation of silicon targets. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 1377-1380	2.6	12
53	Analysis of the liquid argon purity in the ICARUS T600 TPC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 516, 68-79	1.2	49
52	Study of electron recombination in liquid argon with the ICARUS TPC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 523, 275-286	1.2	74
51	Design, construction and tests of the ICARUS T600 detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 527, 329-410	1.2	278
50	Dissociative electron impact ionization of methyl tert-butyl ether: total ionization cross-section and kinetic energy distributions. <i>Chemical Physics Letters</i> , <b>2004</b> , 400, 191-195	2.5	7
49	Role of orbital symmetry in high-order harmonic generation from aligned molecules. <i>Physical Review A</i> , <b>2004</b> , 69,	2.6	91
48	Emission of nanoparticles during ultrashort laser irradiation of silicon targets. <i>Europhysics Letters</i> , <b>2004</b> , 67, 404-410	1.6	37
47	Growth methods of c-axis oriented MgB <sub>2</sub> thin films by pulsed laser deposition. <i>Superconductor Science and Technology</i> , <b>2003</b> , 16, 241-245	3.1	36
46	Pulsed laser ablation of borocarbide targets probed by time-of-flight mass spectrometry. <i>Optics and Lasers in Engineering</i> , <b>2003</b> , 39, 179-190	4.6	11
45	Pressure effects during excimer laser ablation of magnesium diboride targets. <i>Applied Surface Science</i> , <b>2003</b> , 208-209, 39-44	6.7	3
44	Dynamics of laser-ablated MgB <sub>2</sub> plasma expanding in argon probed by optical emission spectroscopy. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	68
43	Investigations of electron wave-packet dynamics and high-order harmonic generation in laser-aligned molecules. <i>Journal of Modern Optics</i> , <b>2003</b> , 50, 561-577	1.1	8
42	Analysis of charged fragments emitted during excimer laser ablation of YNi <sub>2</sub> B <sub>2</sub> C borocarbide targets by time-of-flight mass spectrometry. <i>Applied Surface Science</i> , <b>2002</b> , 186, 303-308	6.7	6
41	Double-peak distribution of electron and ion emission profile during femtosecond laser ablation of metals. <i>Applied Surface Science</i> , <b>2002</b> , 186, 358-363	6.7	56
40	Development of a tunable IR lidar system. <i>Optics and Lasers in Engineering</i> , <b>2002</b> , 37, 521-532	4.6	6

39	Optical spectroscopy diagnostics and thin film deposition of laser ablated rare earth Ni <sub>2</sub> B <sub>2</sub> C plasma plumes. <i>Chemical Physics Letters</i> , <b>2002</b> , 353, 1-6	2.5	10
38	Optical emission investigation of laser-produced MgB <sub>2</sub> plume expanding in an Ar buffer gas. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4315-4317	3.4	22
37	High-order harmonic generation in laser-aligned molecules. <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	68
36	High-order harmonic generation efficiency increased by controlled dissociation of molecular iodine. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2002</b> , 35, 1051-1060	1.3	15
35	Interference effects in high-order harmonic generation with molecules. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	297
34	Role of the intramolecular phase in high-harmonic generation. <i>Physical Review Letters</i> , <b>2002</b> , 88, 183903	7.4	417
33	High-Order Harmonic Generation in Aligned Molecules. <i>Physical Review Letters</i> , <b>2001</b> , 87,	7.4	244
32	Charged species analysis in YNi <sub>2</sub> B <sub>2</sub> C laser ablation by time-of-flight mass spectrometry. <i>Applied Surface Science</i> , <b>2000</b> , 168, 100-103	6.7	7
31	Response to [Comment on Emission of prompt electrons during excimer laser ablation of aluminum targets [Appl. Phys. Lett. 76, 248 (2000)]. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 249-250	3.4	4
30	Thermal and nonthermal ion emission during high-fluence femtosecond laser ablation of metallic targets. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3728-3730	3.4	57
29	XeF excimer laser ablation of metallic targets probed by energy-selective time-of-flight mass spectrometry. <i>Applied Surface Science</i> , <b>1999</b> , 138-139, 250-255	6.7	10
28	Characterization of fast electron emission in UV laser ablation of metallic targets. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S483	2.6	8
27	Emission of prompt electrons during excimer laser ablation of aluminum targets. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 7-9	3.4	42
26	Characterization of laser-ablation plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1999</b> , 32, R131-R172	1.3	295
25	High fluence visible and ultraviolet laser ablation of metallic targets. <i>Applied Surface Science</i> , <b>1998</b> , 127-129, 1017-1022	6.7	15
24	Analysis of the receiver response in lidar measurements. <i>Applied Optics</i> , <b>1998</b> , 37, 6999-7007	1.7	31
23	High fluence laser ablation of aluminum targets: Time-of-flight mass analysis of plasmas produced at wavelengths 532 and 355 nm. <i>Applied Physics A: Materials Science and Processing</i> , <b>1996</b> , 62, 533-541	2.6	26
22	Lidar observations of the stratospheric aerosol layer over southern Italy in the period 1991-1995. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 18765-18773		22



21	Laser produced plasmas in high fluence ablation of metallic surfaces probed by time-of-flight mass spectrometry. <i>Applied Surface Science</i> , <b>1996</b> , 96-98, 175-180	6.7	26
20	Charged species analysis as a diagnostic tool for laser produced plasma characterization. <i>Applied Surface Science</i> , <b>1996</b> , 106, 507-512	6.7	22
19	Direct measurement of macroscopic electric fields produced by collective effects in electron-impact experiments. <i>Physical Review A</i> , <b>1996</b> , 54, 2482-2485	2.6	1
18	Covariance mapping of charged species evolution in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> laser ablation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1995</b> , 144, 1-21		6
17	Time of flight mass spectrometry and covariance mapping technique investigation of charged specie evolution in Pb(Ti <sub>0.48</sub> Zr <sub>0.52</sub> )O <sub>3</sub> laser ablation. <i>Applied Surface Science</i> , <b>1995</b> , 86, 35-39	6.7	9
16	Lidar measurements of atmospheric transmissivity <b>1995</b> , 18, 209-222		2
15	Laser ablation of Pb(Ti <sub>0.48</sub> Zr <sub>0.52</sub> )O <sub>3</sub> target: Characterization and evolution of charged species. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 494-504	2.5	23
14	Two wavelength lidar analysis of stratospheric aerosol size distribution. <i>Journal of Aerosol Science</i> , <b>1995</b> , 26, 989-1001	4.3	25
13	Satellite- and ground-based atmospheric water vapor measurements: a comparative study <b>1995</b> , 2506, 372		
12	Kinetic-energy distributions of charged fragments from CO <sub>2</sub> dissociative ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1994</b> , 27, 2051-2061	1.3	19
11	Diagnostics of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> laser plume by time-of-flight mass spectrometry. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 8077-8087	2.5	53
10	Experimental analysis of H <sub>3</sub> <sup>-</sup> and D <sub>3</sub> <sup>-</sup> molecule autoionization. <i>Physical Review A</i> , <b>1993</b> , 47, 986-993	2.6	6
9	Continuous-electron-beam focusing induced by collective plasma interactions in D <sub>2</sub> and H <sub>2</sub> . <i>Physical Review E</i> , <b>1993</b> , 47, 1960-1967	2.4	4
8	Correlation analysis of laser ablated ions from YBCO. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1993</b> , 179, 116-121	2.3	18
7	Electron impact ionisation of H <sub>2</sub> (D <sub>2</sub> ) molecules: kinetic energy distributions of H <sup>+</sup> (D <sup>+</sup> ). <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1993</b> , 127, 57-65		4
6	Dead time correction of time distribution measurements. <i>Review of Scientific Instruments</i> , <b>1991</b> , 62, 2822-2827	1.7	12
5	Experimental and Theoretical Analysis of Non-linear Vibrational Relaxation of Polyatomic Molecules Strongly Excited by Resonant Laser Radiation. <i>Laser Chemistry</i> , <b>1988</b> , 8, 315-334		
4	Interferometric studies of nonlinear relaxation processes in vibrationally highly excited SF <sub>6</sub> molecules. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1987</b> , 4, 452	1.7	5

- 3 Nonlinear relaxation of partially dissociated SF6 molecules. *Optics Communications*, **1986**, 59, 183-187 2 5
- 2 Nanostructured Surfaces as Plasmonic Biosensors: A Review. *Advanced Materials Interfaces*, 2101133 4.6 6
- 1 Colorimetric Test for Fast Detection of SARS-CoV-2 in Nasal and Throat Swabs 0