

Jean-Paul Mosnier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6851250/publications.pdf>

Version: 2024-02-01

127
papers

3,277
citations

185998

28
h-index

174990

52
g-index

130
all docs

130
docs citations

130
times ranked

2778
citing authors

#	ARTICLE	IF	CITATIONS
1	In-package atmospheric pressure cold plasma treatment of strawberries. Journal of Food Engineering, 2014, 125, 131-138.	2.7	306
2	In-package atmospheric pressure cold plasma treatment of cherry tomatoes. Journal of Bioscience and Bioengineering, 2014, 118, 177-182.	1.1	236
3	Surface excitonic emission and quenching effects in ZnO nanowire/nanowall systems: Limiting effects on device potential. Physical Review B, 2005, 71, .	1.1	183
4	Cold Plasma in Modified Atmospheres for Post-harvest Treatment of Strawberries. Food and Bioprocess Technology, 2014, 7, 3045-3054.	2.6	147
5	Influence of high voltage atmospheric cold plasma process parameters and role of relative humidity on inactivation of Bacillus atrophaeus spores inside a sealed package. Journal of Hospital Infection, 2014, 88, 162-169.	1.4	139
6	Post-discharge gas composition of a large-gap DBD in humid air by UV-Vis absorption spectroscopy. Plasma Sources Science and Technology, 2014, 23, 065033.	1.3	119
7	X-UV Absorption Spectroscopy with Laser-Produced Plasmas: A Review. Physica Scripta, 1991, T34, 77-92.	1.2	110
8	First observation of a photon-induced triply excited state in atomic lithium. Physical Review Letters, 1994, 72, 2359-2362.	2.9	110
9	High-resolution photoion yield measurements of 'hollow' atomic lithium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L161-L168.	0.6	71
10	Extreme-ultraviolet studies with laser-produced plasmas. Optical Engineering, 1994, 33, 3984.	0.5	56
11	Metastable state contributions to the measured 3p photoabsorption spectrum of Cr ⁺ ions in a laser-produced plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, L583-L591.	0.6	49
12	Demonstrating the Potential of Industrial Scale In-Package Atmospheric Cold Plasma for Decontamination of Cherry Tomatoes. Plasma Medicine, 2016, 6, 397-412.	0.2	49
13	Control of ZnO nanorod array density by Zn supersaturation variation and effects on field emission. Nanotechnology, 2007, 18, 215704.	1.3	48
14	Correlation of Raman and X-ray diffraction measurements of annealed pulsed laser deposited ZnO thin films. Thin Solid Films, 2003, 436, 273-276.	0.8	46
15	Studying the growth conditions, the alignment and structure of ZnO nanorods. Surface and Coatings Technology, 2005, 200, 1093-1096.	2.2	43
16	Time-integrated laser-induced plasma spectroscopy in the vacuum ultraviolet for the quantitative elemental characterization of steel alloys. Journal Physics D: Applied Physics, 2000, 33, 2252-2262.	1.3	40
17	New high-resolution measurements of doubly excited states of Li ⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 4193-4207.	0.6	37
18	Properties of Li-, P- and N-doped ZnO thin films prepared by pulsed laser deposition. Superlattices and Microstructures, 2005, 38, 397-405.	1.4	37

#	ARTICLE	IF	CITATIONS
19	Electron and ion stagnation at the collision front between two laser produced plasmas. Journal Physics D: Applied Physics, 2009, 42, 055211.	1.3	37
20	Emission characteristics and dynamics of the stagnation layer in colliding laser produced plasmas. Journal of Applied Physics, 2010, 107, .	1.1	37
21	Characterization and antimicrobial efficacy against E. coli of a helium/air plasma at atmospheric pressure created in a plastic package. Journal Physics D: Applied Physics, 2013, 46, 035401.	1.3	37
22	4f(P1)Giant Dipole Resonance inLa3+. Physical Review Letters, 1995, 74, 2188-2191.	2.9	36
23	(20~23) ZnO thin films grown by pulsed laser deposition on CeO2-buffered r-sapphire substrate. Journal of Applied Physics, 2007, 101, 013509.	1.1	34
24	Characterization of nitrogen-doped ZnO thin films grown by plasma-assisted pulsed laser deposition on sapphire substrates. Superlattices and Microstructures, 2007, 42, 21-25.	1.4	34
25	VUV/EUV ionising radiation and atoms and ions: dual laser plasma investigations. Radiation Physics and Chemistry, 2004, 70, 291-321.	1.4	33
26	ZnO films grown by pulsed-laser deposition on soda lime glass substrates for the ultraviolet inactivation of Staphylococcus epidermidis biofilms. Science and Technology of Advanced Materials, 2009, 10, 045003.	2.8	31
27	Inner-shell photoexcitations as probes of the molecular ions CH^+ and SiH^+ . Measurements and theory. Physical Review A, 2016, 93, .	1.0	31
28	Growth of ZnO nanostructures on Au-coated Si: Influence of growth temperature on growth mechanism and morphology. Journal of Applied Physics, 2008, 104, .	1.1	30
29	Even-parity autoionizing states in the extreme-ultraviolet photoabsorption spectra of Mg, Al, and Si. Physical Review A, 1994, 49, 755-761.	1.0	28
30	Anomalous Behavior of the Near-Threshold Photoionization Cross Section of the Neon Isoelectronic Sequence: A Combined Experimental and Theoretical Study. Physical Review Letters, 1999, 83, 2151-2154.	2.9	27
31	Wave-function collapse with increasing ionization: 4d photoabsorption of Cs through Cs4+. Physical Review A, 2001, 63, .	1.0	27
32	Effects of atmospheric air plasma treatment of graphite and carbon felt electrodes on the anodic current from Shewanella attached cells. Bioelectrochemistry, 2015, 106, 186-193.	2.4	27
33	2p-subshell photoabsorption by Si2+ ions in a laser-produced plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 1715-1722.	0.6	26
34	Structural characterization of ZnO thin films grown on various substrates by pulsed laser deposition. Journal Physics D: Applied Physics, 2012, 45, 225101.	1.3	26
35	Discrete structure in the 4d photoabsorption spectrum of tellurium and its ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 3905-3922.	0.6	25
36	Electrical characterisation of phosphorus-doped ZnO thin films grown by pulsed laser deposition. Superlattices and Microstructures, 2007, 42, 74-78.	1.4	23

#	ARTICLE	IF	CITATIONS
37	Enhanced shock wave detection sensitivity for laser-produced plasmas in low pressure ambient gases using interferometry. <i>Measurement Science and Technology</i> , 2012, 23, 125204.	1.4	23
38	The 2p-subshell absorption spectrum of Al III. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, 3685-3693.	0.6	22
39	Photoionization cross sections of the aluminumlike $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Si} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 137 \langle \text{mml:mn} \rangle \text{ eV}$. <i>Physical Review A</i> , 2014, 90, .	1.0	22
40	The 2p-subshell photoabsorption spectrum of Al+ in a laser-produced plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 5055-5068.	0.6	21
41	Expansion dynamics and equilibrium conditions in a laser ablation plume of lithium: Modeling and experiment. <i>Journal of Applied Physics</i> , 2005, 97, 064904.	1.1	21
42	Vacuum-UV absorption spectrum of a laser-produced chromium plasma: 3p-subshell photoabsorption by Cr ²⁺ ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 5077-5090.	0.6	20
43	Effects of the crystallite mosaic spread on integrated peak intensities in 2θ measurements of highly crystallographically textured ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 375401.	1.3	20
44	Beam-foil spectroscopy of 2p to 1s transitions in Si XI to Si XIV ions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1986, 19, 2531-2546.	1.6	19
45	Effect of polycrystallinity on the optical properties of highly oriented ZnO grown by pulsed laser deposition. <i>Thin Solid Films</i> , 2004, 458, 330-335.	0.8	19
46	Highly transparent and reproducible nanocrystalline ZnO and AZO thin films grown by room temperature pulsed-laser deposition on flexible Zeonor plastic substrates. <i>Materials Research Express</i> , 2015, 2, 096401.	0.8	19
47	Mediator-free interaction of glucose oxidase, as model enzyme for immobilization, with Al-doped and undoped ZnO thin films laser-deposited on polycarbonate supports. <i>Enzyme and Microbial Technology</i> , 2017, 96, 67-74.	1.6	19
48	Diagnostic of an expanding laser-produced lithium plasma using ICCD frame photography and shadowgraphy. <i>Applied Surface Science</i> , 1998, 127-129, 1035-1040.	3.1	18
49	Fabrication of p-type doped ZnO thin films using pulsed laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2005, 16, 421-427.	1.1	18
50	Effects of excitonic diffusion on stimulated emission in nanocrystalline ZnO. <i>Applied Physics Letters</i> , 2006, 88, 071919.	1.5	18
51	Ion emission in collisions between two laser-produced plasmas. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 355203.	1.3	18
52	Trends in autoionization of Rydberg states converging to the 4s threshold in the Kr ⁺ Rb ⁺ Sr ²⁺ isoelectronic sequence: Theory and experiment. <i>Physical Review A</i> , 2003, 67, .	1.0	17
53	Synthesis and photoluminescence of ZnO nanowires/nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2005, 16, 397-401.	1.1	17
54	Extreme-UV photoabsorption spectrum of a laser-produced silicon plasma: evidence for metastable Si ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L547-L552.	0.6	16

#	ARTICLE	IF	CITATIONS
55	Defect luminescence of GaN grown by pulsed laser deposition. Journal of Crystal Growth, 2001, 222, 497-502.	0.7	16
56	Study of photoluminescence at 3.310 and 3.368 eV in GaN/sapphire(0001) and GaN/GaAs(001) grown by liquid-target pulsed-laser deposition. Applied Physics Letters, 2002, 80, 3301-3303.	1.5	16
57	On the 3p-subshell photoabsorption spectra of iron-group ions: the case of Mn ²⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L1-L8.	0.6	16
58	Field emission in ordered arrays of ZnO nanowires prepared by nanosphere lithography and extended Fowler-Nordheim analyses. Journal of Applied Physics, 2011, 110, .	1.1	16
59	Inducing a Dielectric Barrier Discharge Plasma Within a Package. IEEE Transactions on Plasma Science, 2014, 42, 2368-2369.	0.6	16
60	Absorption spectroscopy of an expanding laser produced lithium plasma in the extreme ultraviolet using the Dual Laser Plasma technique. Applied Surface Science, 1998, 127-129, 686-691.	3.1	15
61	The evolution of 4d photoabsorption in Sb with increasing ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1383-1401.	0.6	15
62	Absolute photoionization cross sections and resonance structure of doubly ionized silicon in the region of the 2p ² 1 threshold: Experiment and theory. Physical Review A, 2003, 68, .	1.0	15
63	ZnO thin films grown on platinum (111) buffer layers by pulsed laser deposition. Thin Solid Films, 2006, 500, 78-83.	0.8	15
64	ZnO nanostructured thin films grown by pulsed laser deposition in mixed O ₂ / Ar background gas. Superlattices and Microstructures, 2007, 42, 468-472.	1.4	15
65	2p photoabsorption spectra of valence excited configurations in Al ²⁺ and Si ³⁺ observed in a dual laser produced plasma experiment. Physica Scripta, 1990, 41, 30-34.	1.2	14
66	Ultraviolet stimulated emission from bulk and polycrystalline ZnO thin films with varying grain sizes. Physica B: Condensed Matter, 2003, 340-342, 245-249.	1.3	14
67	Short-pulse, extreme-ultraviolet continuum emission from a table-top laser plasma light source. Applied Physics Letters, 1997, 70, 1497-1499.	1.5	13
68	Time resolved Nomarski interferometry of laser produced plasma plumes. Applied Surface Science, 2009, 255, 5167-5171.	3.1	13
69	New experiments in photoabsorption studies of singly and multiply charged ions. Journal of Electron Spectroscopy and Related Phenomena, 1996, 79, 283-288.	0.8	12
70	Comparison of structural, optical and electrical properties of undoped ZnO thin films grown on - and - Al ₂ O ₃ substrates using pulsed laser deposition. Superlattices and Microstructures, 2005, 38, 256-264.	1.4	12
71	The 5d photoabsorption spectra of Pb III and Bi IV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 205001.	0.6	12
72	Photoionization of the Ne-like $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Si} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 42 \langle \text{mml:mn} \rangle$ in ground and metastable states in the 110-184-eV photon energy range. Physical Review A, 2009, 79, .	1.1	12

#	ARTICLE	IF	CITATIONS
73	Crystalline ZnO/Amorphous ZnO Core/Shell Nanorods: Self-Organized Growth, Structure, and Novel Luminescence. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4848-4855.	1.5	12
74	XUV photoabsorption of laser generated Au vapour. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 181-190.	0.6	11
75	4d photoabsorption spectra of Indium (In II–In IV). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 773-782.	0.6	11
76	Control of ZnO nanowire arrays by nanosphere lithography (NSL) on laser-produced ZnO substrates. <i>Applied Surface Science</i> , 2011, 257, 5159-5162.	3.1	11
77	High quality interconnected core/shell ZnO nanorod architectures grown by pulsed laser deposition on ZnO-seeded Si substrates. <i>Superlattices and Microstructures</i> , 2017, 101, 8-14.	1.4	11
78	Vibrationally and Spin-Orbit-Resolved Inner-Shell X-ray Absorption Spectroscopy of the NH ₄ ⁺ Molecular Ion: Measurements and ab Initio Calculations. <i>Atoms</i> , 2020, 8, 67.	0.7	11
79	Study of exciton–polariton modes in nanocrystalline thin films of ZnO using reflectance spectroscopy. <i>Nanotechnology</i> , 2005, 16, 2625-2632.	1.3	10
80	Influence of ZnO nanowire array morphology on field emission characteristics. <i>Nanotechnology</i> , 2014, 25, 135604.	1.3	10
81	Measurement and analysis of the photoabsorption spectra of laser-produced Al and in the region of 2p-subshell excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, 677-688.	0.6	9
82	The photoabsorption spectrum of laser-generated Li ⁺ in the 60-190 eV photon energy range. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 5203-5214.	0.6	9
83	Comparison between Intensified Photodiode Array and Charge-Coupled Device Detectors in the Vacuum Ultraviolet for Laser-Induced Plasma Spectroscopy. <i>Applied Spectroscopy</i> , 2001, 55, 1430-1433.	1.2	9
84	A computational model for selected emission transitions in a laser produced lithium ablation plume. <i>Applied Surface Science</i> , 2002, 197-198, 72-76.	3.1	9
85	EUV photoabsorption spectra of Cd II and Cd III. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 83-88.	0.6	9
86	Growth of crystalline ZnO nanostructures using pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2006, 39, 153-161.	1.4	9
87	Hydrogen absorption in thin ZnO films prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2013, 580, S40-S43.	2.8	9
88	X-ray photochemistry of carbon hydride molecular ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4415-4421.	1.3	9
89	Photoabsorption and photoion spectroscopy of atomic uranium in the region of 6p and 5d excitations. <i>Physical Review A</i> , 2000, 61, .	1.0	8
90	Particle diagnostics of a ZnO laser ablation plume for nanostructured material deposition. <i>Applied Surface Science</i> , 2009, 255, 5338-5341.	3.1	8

#	ARTICLE	IF	CITATIONS
91	Vacuum-ultraviolet absorption spectrum of the Rb ⁺ ion in a laser-generated plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L651-L656.	0.6	7
92	Morphological control of ZnO nanostructures on silicon substrates. Superlattices and Microstructures, 2007, 42, 337-342.	1.4	7
93	Observation of a 6p-6d giant dipole resonance in the VUV photoabsorption spectrum of a laser-produced thorium plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, L285-L290.	0.6	6
94	Study of expansion of laser ablation plumes of Ga and GaN in various N ₂ atmospheres using stigmatic emission spectroscopy. Applied Surface Science, 2002, 197-198, 325-330.	3.1	6
95	Exciton-polariton behaviour in bulk and polycrystalline ZnO. Physica B: Condensed Matter, 2003, 340-342, 230-234.	1.3	6
96	p-type conduction above room temperature in nitrogen-doped ZnO thin film grown by plasma-assisted pulsed laser deposition. Electronics Letters, 2006, 42, 1181.	0.5	6
97	Evolution of the photoabsorption of the molecular-ion series $\text{Si}_n\text{H}_{n+1}$		

#	ARTICLE	IF	CITATIONS
109	Photoionization Cross-Sections of Carbon-Like N+ Near the K-Edge (390â€“440 eV). <i>Atoms</i> , 2021, 9, 27.	0.7	4
110	VUV and soft x-ray emission from pre-plasmas irradiated with intense picosecond and femtosecond pulses. , 2003, , .		3
111	Self-organized ZnAl ₂ O ₄ nanostructures grown on -sapphire. <i>Superlattices and Microstructures</i> , 2007, 42, 327-332.	1.4	3
112	P-type nitrogen- and phosphorus-doped ZnO thin films grown by pulsed laser deposition on sapphire substrates. , 2007, , .		2
113	Colliding laser produced plasmas as novel sources: Optical diagnostics. <i>Journal of Physics: Conference Series</i> , 2009, 194, 062003.	0.3	2
114	Defect studies of thin ZnO films prepared by pulsed laser deposition. <i>Journal of Physics: Conference Series</i> , 2014, 505, 012021.	0.3	2
115	The 5d-6p VUV Photoabsorption Spectrum of Bi+. <i>Atoms</i> , 2020, 8, 55.	0.7	2
116	Measurements of extreme UV yields from Nd-YAG plasmas using a multilayer monochromator. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996, 80, 295-298.	0.8	1
117	Pulsed laser deposition of wide-bandgap semiconductor thin films. , 2003, 4876, 508.		1
118	Vacuum-UV photoabsorption imaging of laser-ablated plumes. , 2003, 4876, 564.		1
119	3p photoabsorption spectra of Mn ²⁺ and Mn ³⁺ . <i>Physical Review A</i> , 2007, 75, .	1.0	1
120	Defect studies of ZnO films prepared by pulsed laser deposition on various substrates. <i>Journal of Physics: Conference Series</i> , 2013, 443, 012018.	0.3	1
121	<title>Applications of laser plasmas in XUV photoabsorption spectroscopy</title>. , 1991, 1503, 406.		0
122	Photoluminescence study of GaN grown by pulsed laser deposition in nitrogen atmosphere. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 82, 128-130.	1.7	0
123	Low-level measurements of carbon concentrations in steel using laser-induced plasma spectroscopy (LIPS). , 2003, , .		0
124	Laterally and vertically grown ZnO nanostructures on sapphire. , 2005, , .		0
125	Morphological control of ZnO nanostructures grown on silicon. , 2007, 6474, 238.		0
126	Observation of epitaxially ordered twinned zinc aluminate â€œnanobladesâ€• on c-sapphire. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 758-765.	1.1	0

#	ARTICLE	IF	CITATIONS
127	Special Issue "Interaction of Ionizing Photons with Atomic and Molecular Ions" Atoms, 2021, 9, 111.	0.7	0