Bruno Masenelli

List of Publications by Year
in descending order

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62 papers	1,471 citations	331670 21 h-index	330143 37 g-index
63 all docs	63 docs citations	63 times ranked	2048 citing authors

#	Article	IF	Citations
1	Visible luminescence improvement of ZnO/PAA nano-hybrids by silica coating. Applied Surface Science, 2021, 540, 148343.	6.1	5
2	Sustainable laser-based technology for insect pest control. Scientific Reports, 2021, 11, 11068.	3.3	12
3	Evidence of Oâ€Polar (0001Â¯) ZnO Surfaces Induced by In Situ Ga Doping. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2070029.	2.4	0
4	Input of IBA for the study of plasmonic properties of doped ZnO nanocrystals. Nuclear Instruments & Methods in Physics Research B, 2020, 479, 74-79.	1.4	0
5	Evidence of Oâ€Polar (0001Â¯) ZnO Surfaces Induced by In Situ Ga Doping. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000037.	2.4	1
6	Doping of ZnO inorganic-organic nanohybrids with metal elements. Scientific Reports, 2019, 9, 11959.	3.3	8
7	Enhancement of electric and magnetic dipole transition of rare-earth-doped thin films tailored by high-index dielectric nanostructures. Applied Optics, 2019, 58, 1682.	1.8	23
8	Increasing the Electron Mobility of ZnO-Based Transparent Conductive Films Deposited by Open-Air Methods for Enhanced Sensing Performance. ACS Applied Nano Materials, 2018, 1, 6922-6931.	5.0	27
9	Pressure-Induced Sublattice Disordering in SnO2 : Invasive Selective Percolation. Physical Review Letters, 2018, 120, 265702.	7.8	11
10	Crystal Facet Engineering in Ga-Doped ZnO Nanowires for Mid-Infrared Plasmonics. Crystal Growth and Design, 2018, 18, 4287-4295.	3.0	8
11	Control of the compensating defects in Al-doped and Ga-doped ZnO nanocrystals for MIR plasmonics. RSC Advances, 2017, 7, 28677-28683.	3.6	11
12	Intense visible emission from ZnO/PAAX (Xâ€‰=â€‰H or Na) nanocomposite synthesized via a simple and scalable sol-gel method. Scientific Reports, 2016, 6, 23557.	3.3	35
13	Superconductivity in an expanded phase of ZnO: anab initiostudy. New Journal of Physics, 2015, 17, 043034.	2.9	10
14	Tunable mid IR plasmon in GZO nanocrystals. Nanoscale, 2015, 7, 12030-12037.	5.6	25
15	Thermodynamics of Nanoparticles: Experimental Protocol Based on a Comprehensive Ginzburg-Landau Interpretation. Nano Letters, 2014, 14, 269-276.	9.1	14
16	YAG:Ce nanoparticle lightsources. Nanotechnology, 2013, 24, 165703.	2.6	13
17	ZnO nanoparticles as a luminescent down-shifting layer for photosensitive devices. Journal of Semiconductors, 2013, 34, 053005.	3.7	9
18	Oriented Attachment of ZnO Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 10220-10227.	3.1	32

#	Article	IF	Citations
19	Extended-Defect-Related Photoluminescence Line at 3.33 eV in Nanostructured ZnO Thin Films. Applied Physics Express, 2013, 6, 111101.	2.4	8
20	ZnO dense nanowire array on a film structure in a single crystal domain texture for optical and photoelectrochemical applications. Nanotechnology, 2012, 23, 495602.	2.6	25
21	Shells of crystal field symmetries evidenced in oxide nano-crystals. Nanotechnology, 2012, 23, 305706.	2.6	4
22	EFFICIENT ULTRAVIOLET LIGHT FREQUENCY DOWN-SHIFTING BY A THIN FILM OF ZnO NANOPARTICLES. International Journal of Nanoscience, 2012, 11, 1240022.	0.7	10
23	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>Doping in Expanded Phases of ZnO: AnAbÂInitioStudy. Physical Review Letters, 2012, 108, 115903.	7.8	18
24	Functional nanostructures from clusters. International Journal of Nanotechnology, 2010, 7, 523.	0.2	69
25	Thin Film Growth Using Hetero Embryo: Demonstration on Pyrochlore Phase. ACS Applied Materials & Interfaces, 2010, 2, 1543-1547.	8.0	4
26	Competition between exciton-phonon interaction and defects states in the 3.31 eV band in ZnO. Physical Review B, 2010, 81, .	3.2	64
27	Probing the excitonic emission of ZnO nanoparticles using UVâ€“VUV excitations. Journal of Luminescence, 2009, 129, 1798-1801.	3.1	14
28	Fluorescent oxide nanoparticles adapted to active tips for near-field optics. Nanotechnology, 2009, 20, 015603.	2.6	37
29	Is a Highly Ionic Material Still Ionic as a Nanoparticle?. Small, 2008, 4, 1233-1239.	10.0	4
30	Crystallinity, Stoichiometry, and Luminescence of High Quality ZnO Nanoclusters. Journal of Physical Chemistry C, 2008, 112, 12623-12627.	3.1	23
31	Quantum confinement effect on Gd2O3 clusters. Journal of Chemical Physics, 2007, 126, 044507.	3.0	40
32	Effect of the quantum confinement on the luminescent properties of sesquioxydes. Journal of Luminescence, 2007, 122-123, 756-758.	3.1	12
33	Playing with carbon and silicon at the nanoscale. Nature Materials, 2007, 6, 479-490.	27.5	273
34	Rare-earth-based nanoclusters embedded in solâ€“gel waveguiding thin films. Journal of Luminescence, 2006, 119-120, 560-564.	3.1	13
35	Structural transition in rare earth oxide clusters. Journal of Chemical Physics, 2006, 125, 171104.	3.0	30
36	Synchrotron studies on silicon clathrates: Highly stable nanostructured materials. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 163-166.	1.4	1

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37	Rare earth based clusters for nanoscale light source. European Physical Journal D, 2005, 34, 139-143.	1.3	18
38	Comment on â€œIn situ x-ray photoelectron spectroscopic and density-functional studies of Si atoms adsorbed on a C60 filmâ€•[J. Chem. Phys. 121, 11351 (2004)]. Journal of Chemical Physics, 2005, 122, 237101.	3.0	0
39	Over-coordination and order in hydrogenated nanostructured silicon thin films: their influence on strain and electronic properties. Journal of Physics Condensed Matter, 2005, 17, 1279-1288.	1.8	12
40	Guest displacement in silicon clathrates. Physical Review B, 2004, 69, .	3.2	36
41	Towards non-van der Waals C60-based materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1285-1288.	5.6	3
42	Nanostructured films from (C60)nSim clusters. Applied Surface Science, 2004, 226, 226-230.	6.1	2
43	Photodissociation and photoionization of sodium coated C $_mathsf{60}$ clusters. European Physical Journal D, 2003, 25, 31-40.	1.3	13
44	Siâ€“C60 bond in cluster-based materials. Surface Science, 2003, 532-535, 875-879.	1.9	5
45	Superconductivity in Dopedsp3Semiconductors: The Case of the Clathrates. Physical Review Letters, 2003, 91, 247001.	7.8	136
46	Vibrational modes in silicon clathrate compounds:â€ƒA key to understanding superconductivity. Physical Review B, 2002, 66, .	3.2	54
47	Ab initio study of C60â€“silicon clusters. Journal of Chemical Physics, 2002, 117, 10627-10634.	3.0	17
48	BridgingC60by silicon:â€ƒTowards non-Van der WaalsC60-based materials. Physical Review B, 2002, 65, .	3.2	22
49	Coating and polymerization of C60 with carbon: A gas phase photodissociation study. Journal of Chemical Physics, 2002, 117, 3088-3097.	3.0	12
50	Covalent clusters-based materials. Comptes Rendus Physique, 2002, 3, 273-288.	0.9	9
51	Numerical model for organic light-emitting diodes. Journal of Applied Physics, 2001, 89, 430-439.	2.5	74
52	Simulation of charge injection enhancements in organic light-emitting diodes. Applied Physics Letters, 2001, 79, 4438-4440.	3.3	31
53	Numerical model for simulation of transport and recombination in OLEDs. Synthetic Metals, 2001, 121, 1513-1514.	3.9	8
54	Numerical model for injection and transport in multilayers OLEDs. Synthetic Metals, 2001, 122, 141-144.	3.9	15

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55	Nanostructured Materials from Clusters: Synthesis and Properties. Materials Transactions, 2001, 42, 1460-1470.	1.2	43
56	SiC bonding in (C60)n Sim clusters. European Physical Journal D, 2001, 16, 337-340.	1.3	6
57	Fabrication and characterization of organic semiconductor-based microcavities. Thin Solid Films, 2000, 364, 264-268.	1.8	26
58	Controlled spontaneous emission of a tri(8-hydroxyquinoline) aluminum layer in a microcavity. Journal of Applied Physics, 1999, 85, 3032-3037.	2.5	29
59	ITO/PVK/Alq/metal LEDs: influence of PVK doping with DCM and of passivation with sputtered Si3N4. Optical Materials, 1999, 12, 261-266.	3.6	4
60	PVK-AlQ 3 organic electroluminescent diodes: transport properties and color tuning via PVK doping. , 1999, 3797, 408.		0
61	Modified spontaneous emission in oligo (p-phenylene vinylene) planar microcavities. Optical Materials, 1998, 9, 25-33.	3.6	3
62	Photoluminescence de microcavitÃ©s organiques Ã base d'oligomÃ¨res de phÃ©nylÃ¨ne vinylÃ¨ne et mise en Ã©vidence de l'influence de la structure de la cavitÃ© sur l'Ã©mission de l'Alq3. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 1372-1376.	0.2	0