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	Playing with carbon and silicon at the nanoscale. Nature Materials, 2007, 6, 479-490.	27.5	273
2	Superconductivity in Dopedsp3Semiconductors: The Case of the Clathrates. Physical Review Letters, 2003, 91, 247001.	7.8	136
3	Numerical model for organic light-emitting diodes. Journal of Applied Physics, 2001, 89, 430-439.	2.5	74
4	Functional nanostructures from clusters. International Journal of Nanotechnology, 2010, 7, 523.	0.2	69
5	Competition between exciton-phonon interaction and defects states in the 3.31 eV band in ZnO. Physical Review B, 2010, 81, .	3.2	64
6	Vibrational modes in silicon clathrate compounds:â€ƒA key to understanding superconductivity. Physical Review B, 2002, 66, .	3.2	54
7	Nanostructured Materials from Clusters: Synthesis and Properties. Materials Transactions, 2001, 42, 1460-1470.	1.2	43
8	Quantum confinement effect on Gd2O3 clusters. Journal of Chemical Physics, 2007, 126, 044507.	3.0	40
9	Fluorescent oxide nanoparticles adapted to active tips for near-field optics. Nanotechnology, 2009, 20, 015603.	2.6	37
10	Guest displacement in silicon clathrates. Physical Review B, 2004, 69, .	3.2	36
11	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
12	Oriented Attachment of ZnO Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 10220-10227.	3.1	32
13	Simulation of charge injection enhancements in organic light-emitting diodes. Applied Physics Letters, 2001, 79, 4438-4440.	3.3	31
14	Structural transition in rare earth oxide clusters. Journal of Chemical Physics, 2006, 125, 171104.	3.0	30
15	Controlled spontaneous emission of a tri(8-hydroxyquinoline) aluminum layer in a microcavity. Journal of Applied Physics, 1999, 85, 3032-3037.	2.5	29
16	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
17	Fabrication and characterization of organic semiconductor-based microcavities. Thin Solid Films, 2000, 364, 264-268.	1.8	26
18	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

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19	Tunable mid IR plasmon in GZO nanocrystals. Nanoscale, 2015, 7, 12030-12037.	5.6	25
20	Crystallinity, Stoichiometry, and Luminescence of High Quality ZnO Nanoclusters. Journal of Physical Chemistry C, 2008, 112, 12623-12627.	3.1	23
21	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
22	BridgingC60by silicon:â€ƒTowards non-Van der WaalsC60-based materials. Physical Review B, 2002, 65, .	3.2	22
23	Rare earth based clusters for nanoscale light source. European Physical Journal D, 2005, 34, 139-143.	1.3	18
24	<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
25	Ab initio study of C60â€“silicon clusters. Journal of Chemical Physics, 2002, 117, 10627-10634.	3.0	17
26	Numerical model for injection and transport in multilayers OLEDs. Synthetic Metals, 2001, 122, 141-144.	3.9	15
27	Probing the excitonic emission of ZnO nanoparticles using UVâ€“VUV excitations. Journal of Luminescence, 2009, 129, 1798-1801.	3.1	14
28	Thermodynamics of Nanoparticles: Experimental Protocol Based on a Comprehensive Ginzburg-Landau Interpretation. Nano Letters, 2014, 14, 269-276.	9.1	14
29	Photodissociation and photoionization of sodium coated C $_mathsf{60}$ clusters. European Physical Journal D, 2003, 25, 31-40.	1.3	13
30	Rare-earth-based nanoclusters embedded in solâ€“gel waveguiding thin films. Journal of Luminescence, 2006, 119-120, 560-564.	3.1	13
31	YAG:Ce nanoparticle lightsources. Nanotechnology, 2013, 24, 165703.	2.6	13
32	Coating and polymerization of C60 with carbon: A gas phase photodissociation study. Journal of Chemical Physics, 2002, 117, 3088-3097.	3.0	12
33	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
34	Effect of the quantum confinement on the luminescent properties of sesquioxydes. Journal of Luminescence, 2007, 122-123, 756-758.	3.1	12
35	Sustainable laser-based technology for insect pest control. Scientific Reports, 2021, 11, 11068.	3.3	12
36	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

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37	Pressure-Induced Sublattice Disordering in SnO2 : Invasive Selective Percolation. Physical Review Letters, 2018, 120, 265702.	7.8	11
38	EFFICIENT ULTRAVIOLET LIGHT FREQUENCY DOWN-SHIFTING BY A THIN FILM OF ZnO NANOPARTICLES. International Journal of Nanoscience, 2012, 11, 1240022.	0.7	10
39	Superconductivity in an expanded phase of ZnO: anab initiostudy. New Journal of Physics, 2015, 17, 043034.	2.9	10
40	Covalent clusters-based materials. Comptes Rendus Physique, 2002, 3, 273-288.	0.9	9
41	ZnO nanoparticles as a luminescent down-shifting layer for photosensitive devices. Journal of Semiconductors, 2013, 34, 053005.	3.7	9
42	Numerical model for simulation of transport and recombination in OLEDs. Synthetic Metals, 2001, 121, 1513-1514.	3.9	8
43	Extended-Defect-Related Photoluminescence Line at 3.33 eV in Nanostructured ZnO Thin Films. Applied Physics Express, 2013, 6, 111101.	2.4	8
44	Crystal Facet Engineering in Ga-Doped ZnO Nanowires for Mid-Infrared Plasmonics. Crystal Growth and Design, 2018, 18, 4287-4295.	3.0	8
45	Doping of ZnO inorganic-organic nanohybrids with metal elements. Scientific Reports, 2019, 9, 11959.	3.3	8
46	SiC bonding in (C60)n Sim clusters. European Physical Journal D, 2001, 16, 337-340.	1.3	6
47	Siâ€“C60 bond in cluster-based materials. Surface Science, 2003, 532-535, 875-879.	1.9	5
48	Visible luminescence improvement of ZnO/PAA nano-hybrids by silica coating. Applied Surface Science, 2021, 540, 148343.	6.1	5
49	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
50	Is a Highly Ionic Material Still Ionic as a Nanoparticle?. Small, 2008, 4, 1233-1239.	10.0	4
51	Thin Film Growth Using Hetero Embryo: Demonstration on Pyrochlore Phase. ACS Applied Materials & Interfaces, 2010, 2, 1543-1547.	8.0	4
52	Shells of crystal field symmetries evidenced in oxide nano-crystals. Nanotechnology, 2012, 23, 305706.	2.6	4
53	Modified spontaneous emission in oligo (p-phenylene vinylene) planar microcavities. Optical Materials, 1998, 9, 25-33.	3.6	3
54	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

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55	Nanostructured films from (C60)nSim clusters. Applied Surface Science, 2004, 226, 226-230.	6.1	2
56	Synchrotron studies on silicon clathrates: Highly stable nanostructured materials. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 163-166.	1.4	1
57	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
58	PVK-AlQ 3 organic electroluminescent diodes: transport properties and color tuning via PVK doping. , 1999, 3797, 408.		0
59	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
60	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
61	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
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