

Jean-Christophe Valmalette

List of Publications by Year in descending order

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67
papers

1,891
citations

279798

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265206

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67
all docs

67
docs citations

67
times ranked

2661
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, vibrational and photoluminescence properties of samarium doped cobalt tungstates. Journal of Molecular Structure, 2022, 1254, 131983.	3.6	2
2	Photocatalytic and photoluminescence properties of CePO ₄ nanostructures prepared by coprecipitation method and thermal treatment. Optik, 2021, 238, 166683.	2.9	16
3	Phase Transformation, Photocatalytic and Photoluminescent Properties of BiPO ₄ Catalysts Prepared by Solid-State Reaction: Degradation of Rhodamine B. Minerals (Basel, Switzerland), 2021, 11, 1007.	2.0	7
4	Role of Chemical Substitution in the Photoluminescence Properties of Cerium Samarium Tungstates Ce(2-x)Sm _x (WO ₄) ₂ (0 ≤ x ≤ 0.3). IEEE Transactions on Nuclear Science, 2020, 67, 568-574.	2.0	1
5	Effect of morphology and temperature treatment control on the photocatalytic and photoluminescence properties of SrWO ₄ crystals. Photochemical and Photobiological Sciences, 2020, 19, 235-250.	2.9	9
6	Influence of Sr-doping on structural, optical and photocatalytic properties of synthesized Ca ₃ (PO ₄) ₂ . Journal of Colloid and Interface Science, 2020, 572, 269-280.	9.4	90
7	Photocatalytic and photoluminescent properties of a system based on SmPO ₄ nanostructure phase. Materials Today: Proceedings, 2020, 27, 3139-3144.	1.8	10
8	Role of thermal decomposition process in the photocatalytic or photoluminescence properties of BiPO ₄ polymorphs. Water Environment Research, 2020, 92, 1874-1887.	2.7	22
9	Photoluminescence properties of CaWO ₄ and CdWO ₄ thin films deposited on SiO ₂ /Si substrates. Journal of Luminescence, 2019, 215, 116619.	3.1	14
10	Combined SERS/DFT studies of push-pull chromophore self-assembled monolayers: insights into their surface orientation. Physical Chemistry Chemical Physics, 2019, 21, 25865-25871.	2.8	10
11	Luminescent properties under X-ray excitation of Ba(1-x)PbxWO ₄ disordered solid solution. Journal of Solid State Chemistry, 2018, 258, 146-155.	2.9	13
12	Synthesis, characterization and luminescent properties of Sr _{1-x} PbxWO ₄ solid solution (x=0, 0.5 and 1). IOP Conference Series: Materials Science and Engineering, 2017, 186, 012024.	0.6	0
13	Study of ZnO nanoparticles based hybrid nanocomposites for optoelectronic applications. Journal of Applied Physics, 2016, 119, .	2.5	32
14	Hierarchical design and control of NaCe(WO ₄) ₂ crystals: structural and optical properties. CrystEngComm, 2016, 18, 6579-6593.	2.6	22
15	Photoluminescence of A- and B-site Eu ³⁺ -substituted (Sr Ba _{1-x}) ₂ CaW Mo _{1-x} O ₆ phosphors. Journal of Solid State Chemistry, 2016, 237, 72-80.	2.9	17
16	Structural, vibrational and photoluminescence properties of Sr(1-x)PbxMoO ₄ solid solution synthesized by solid state reaction. Materials Research Bulletin, 2016, 79, 121-132.	5.2	22
17	Compositional dependence of the crystal symmetry of Eu ³⁺ -doped (Sr Ba _{1-x}) ₂ CaWyMo _{1-x} O ₆ phosphors. Journal of Solid State Chemistry, 2016, 233, 30-36.	2.9	12
18	Wavelength and orientation dependent capture of light by diatom frustule nanostructures. Scientific Reports, 2015, 5, 17403.	3.3	61

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19	Nano-architecture of gustatory chemosensory bristles and trachea in <i>Drosophila</i> wings. <i>Scientific Reports</i> , 2015, 5, 14198.	3.3	22
20	Fabrication of metal-DNA and metal-CNT hybrid nanomaterials. , 2015, , .		0
21	Optical properties of single diatom frustules revealed by confocal microspectroscopy. <i>Optics Letters</i> , 2015, 40, 740.	3.3	28
22	Influence of chemical substitution on the photoluminescence of Sr(1 \hat{a})Pb WO ₄ solid solution. <i>Journal of Solid State Chemistry</i> , 2015, 227, 186-195.	2.9	21
23	Structural, vibrational study and UV photoluminescence properties of the system Bi _(2\hat{a}) Lu _(x) WO ₆ (0.1 \hat{a} % x \hat{a} % 1). <i>RSC Advances</i> , 2015, 5, 96242-96252. ^{3.6}		18
24	Application of SERS to Chemicals Sensing. , 2015, , 347-370.		0
25	Surface Capping-Assisted Hydrothermal Growth of Gadolinium-Doped CeO ₂ Nanocrystals Dispersible in Aqueous Solutions. <i>Langmuir</i> , 2014, 30, 12049-12056.	3.5	9
26	Structural, vibrational and luminescence properties of the (1 \hat{a})CaWO ₄ \hat{a} xCdWO ₄ system. <i>Journal of Solid State Chemistry</i> , 2014, 219, 127-137.	2.9	24
27	Nitrogen-doping processes of graphene by a versatile plasma-based method. <i>Carbon</i> , 2014, 73, 216-224.	10.3	71
28	Electrospray deposition and characterization of Cu₂O thin films with ring-shaped 2-D network structure. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 361-366.	1.1	4
29	Raman scattering of linear chains of strongly coupled Ag nanoparticles on SWCNTs. <i>Scientific Reports</i> , 2014, 4, 5238.	3.3	53
30	Quenching ilmenite with a high-temperature and high-pressure phase using super-high-energy ball milling. <i>Scientific Reports</i> , 2014, 4, 4700.	3.3	6
31	Hydrothermal Growth of Tailored SnO ₂ Nanocrystals. <i>Crystal Growth and Design</i> , 2013, 13, 1685-1693.	3.0	36
32	Self-organised growth of molecular arrays at surfaces. <i>International Journal of Nanotechnology</i> , 2012, 9, 325.	0.2	6
33	Light- induced electron transfer and ATP synthesis in a carotene synthesizing insect. <i>Scientific Reports</i> , 2012, 2, 579.	3.3	62
34	Structural modifications of nanostructured ceria CeO ₂ xH ₂ O during dehydration process. <i>Powder Technology</i> , 2012, 215-216, 66-71.	4.2	12
35	Impact of three different TiO ₂ morphologies on hydrogen evolution by methanol assisted water splitting: Nanoparticles, nanotubes and aerogels. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14360-14373.	7.1	84
36	Surface enhanced spectroscopy with gold nanostructures on silicon and glass substrates. <i>Surface Science</i> , 2011, 605, 1214-1218.	1.9	16

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37	Polarization-Sensitive Tip-Enhanced Raman Scattering. Nanoscience and Technology, 2010, , 57-88.	1.5	3
38	Surface Enhanced Spectroscopy of Organic Molecules Deposited on Nanostructured Gold Surfaces. , 2010, , .		1
39	Different longitudinal opticalâ€”transverse optical mode amplification in tip enhanced Raman spectroscopy of GaAs(001). Applied Physics Letters, 2010, 97, 263104.	3.3	19
40	Surface Interactions between Molecules and Nanocrystals in Copper Oxalate Nanostructures. Journal of Physical Chemistry C, 2010, 114, 10677-10682.	3.1	12
41	Structural and Raman Vibrational Studies of CeO_2 / Bi_2O_3 System. Advances in Materials Science and Engineering, 2009, 2009, 1-4.	1.8	13
42	Self-Assembly and Raman Spectroscopy of Additive Coated Nanocrystals. Materials Research Society Symposia Proceedings, 2009, 1176, 21.	0.1	1
43	Depolarization effects in tipâ€”enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 1361-1370.	2.5	30
44	Self-Organized Assembly of Copper Oxalate Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 5068-5074.	3.1	14
45	Surface enhanced Raman spectroscopy of organic molecules deposited on gold sputtered substrates. Nanotechnology, 2009, 20, 215705.	2.6	74
46	Role of surface defects and microstructure in infrared optical properties of thermochromic VO ₂ materials. Journal of Physics and Chemistry of Solids, 2005, 66, 63-73.	4.0	42
47	Evolution in Time of a Goldâ€”Zirconia Nanopowder at Room Temperature:â€”Nucleation Growth of Gold Nanoparticles. Chemistry of Materials, 2005, 17, 5920-5927.	6.7	2
48	Optimized infrared switching properties in thermochromic vanadium dioxide thin films: role of deposition process and microstructure. Thin Solid Films, 2004, 446, 287-295.	1.8	117
49	Study of the nanostructuring of ZrAu alloy near the ambient temperature by X-ray diffraction and thermal analyses. Journal of Alloys and Compounds, 2004, 373, 96-103.	5.5	1
50	Neutron powder diffraction study of the crystal structures of ZrAu. Journal of Alloys and Compounds, 2004, 373, 16-27.	5.5	2
51	Microstructure modifications and modulated piezoelectric responses in PLZT/Al ₂ O ₃ composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 97, 74-82.	3.5	10
52	Ultrafast Nanostructuring Oxidation of Crystallized Intermetallic ZrAu at 25 Â°C. Chemistry of Materials, 2002, 14, 2048-2054.	6.7	10
53	Size Effects on the Stabilization of Ultrafine Zirconia Nanoparticles. Chemistry of Materials, 2002, 14, 5098-5102.	6.7	47
54	Relations between microstructure, electrical percolation and corrosion in metalâ€”insulator composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 328, 67-79.	5.6	39

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55	Preparation and characterization of Au/ZrO ₂ nanoparticles obtained by oxidation of ZrXAuY alloy. <i>Materials Science and Engineering C</i> , 2002, 19, 79-83.	7.3	8
56	Comparative study between nanocrystalline powder and thin film of vanadium dioxide VO ₂ : electrical and infrared properties. <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 1229-1238.	4.0	124
57	Structural Disorder and Ionic Conductivity in LiVO ₃ : A Neutron Powder Diffraction Study from 340 to 890 K. <i>Journal of Solid State Chemistry</i> , 2001, 156, 379-389.	2.9	20
58	Precipitation of Self-Organized Copper Oxalate Polycrystalline Particles in the Presence of Hydroxypropylmethylcellulose (HPMC): Control of Morphology. <i>Journal of Colloid and Interface Science</i> , 2000, 226, 189-198.	9.4	138
59	Nanocrystalline vanadium dioxide: synthesis and mid-infrared properties. <i>Optical Materials</i> , 2000, 15, 111-114.	3.6	38
60	Synthesis of Zirconia-coated Gold Nanoparticles. <i>Journal of Materials Science Letters</i> , 1998, 17, 1665-1667.	0.5	6
61	Gold nanoparticle synthesis in graft copolymer micelles. <i>Colloid and Polymer Science</i> , 1998, 276, 853-859.	2.1	79
62	High efficiency thermochromic VO ₂ (R) resulting from the irreversible transformation of VO ₂ (B). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998, 54, 168-173.	3.5	110
63	Optical properties of gold clusters precipitated on zirconia particles. <i>Materials Research Society Symposia Proceedings</i> , 1997, 501, 85.	0.1	0
64	Effective medium theory characterization of Au/Ag nanoalloy-porous alumina composites. <i>Scripta Materialia</i> , 1997, 9, 571-574.	0.5	33
65	Dynamical Maxwell-Garnett optical modeling of nanogold-porous alumina composites: Mie and Kappa influence on absorption maxima. <i>Scripta Materialia</i> , 1997, 9, 575-578.	0.5	21
66	Crystallization of nanosized silicon powder prepared by plasma-induced clustering reactions. <i>AIChE Journal</i> , 1997, 43, 2610-2615.	3.6	6
67	Vanadium dioxide/polymer composites: thermochromic behaviour and modelling of optical transmittance. <i>Solar Energy Materials and Solar Cells</i> , 1994, 33, 135-144.	6.2	39