Frédéric Guinneton

List of Publications by Year in descending order

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60 papers

1,313 citations

331670 21 h-index 35 g-index

63 all docs

63
docs citations

63 times ranked

1326 citing authors

#	Article	IF	CITATIONS
1	Comparative study between nanocrystalline powder and thin film of vanadium dioxide VO2: electrical and infrared properties. Journal of Physics and Chemistry of Solids, 2001, 62, 1229-1238.	4.0	124
2	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
3	Preparation, characterization and photocatalytic degradation of Rhodamine B dye over a novel Zn3(PO4)2/BiPO4 catalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103075.	6.7	89
4	Electronic band structure and visible-light photocatalytic activity of Bi ₂ WO ₆ : elucidating the effect of lutetium doping. RSC Advances, 2016, 6, 101105-101114.	3.6	57
5	Carbonatation and Decarbonatation Kinetics in the La ₂ CO ₃ System under CO ₂ Gas Flows. Advances in Materials Science and Engineering, 2010, 2010, 1-6.	1.8	56
6	Novel Lu-doped Bi2WO6 nanosheets: Synthesis, growth mechanisms and enhanced photocatalytic activity under UV-light irradiation. Ceramics International, 2016, 42, 8552-8558.	4.8	53
7	Synthesis and characterization of mesoporous geopolymer based on Moroccan kaolinite rich clay. Applied Clay Science, 2020, 196, 105764.	5.2	44
8	Role of surface defects and microstructure in infrared optical properties of thermochromic VO2 materials. Journal of Physics and Chemistry of Solids, 2005, 66, 63-73.	4.0	42
9	Chromium oxides thin films prepared and coated in situ with gold by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 74-78.	3.5	42
10	Nanocrystalline vanadium dioxide: synthesis and mid-infrared properties. Optical Materials, 2000, 15, 111-114.	3.6	38
11	Thermochromic CeO2–VO2 bilayers: Role of ceria coating in optical switching properties. Optical Materials, 2007, 30, 407-415.	3.6	38
12	VO2 thin films deposited on silicon substrates from V2O5 target: Limits in optical switching properties and modeling. Thin Solid Films, 2008, 516, 891-897.	1.8	36
13	Enhanced photocatalytic activity of Zn3(PO4)2/ZnO composite semiconductor prepared by different methods. Chemical Physics Letters, 2021, 783, 139046.	2.6	32
14	Rietveld refinements, impedance spectroscopy and phase transition of the polycrystalline ZnMoO4 ceramics. Ceramics International, 2015, 41, 15193-15201.	4.8	28
15	From cerium oxycarbonate to nanostructured ceria: Relations between synthesis, thermal process and morphologies. Journal of Crystal Growth, 2008, 310, 3055-3061.	1.5	27
16	Electrodeposited zinc phosphate hydrate electrodes for electrocatalytic applications. Journal of Applied Electrochemistry, 2019, 49, 163-177.	2.9	25
17	Structural, vibrational and luminescence properties of the (1â^'x)CaWO4â^'xCdWO4 system. Journal of Solid State Chemistry, 2014, 219, 127-137.	2.9	24
18	New thermochromic bilayers for optical or electronic switching systems. Thin Solid Films, 2004, 449, 166-172.	1.8	23

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19	Structural, vibrational and photoluminescence properties of Sr(1-x)PbxMoO4 solid solution synthesized by solid state reaction. Materials Research Bulletin, 2016, 79, 121-132.	5.2	22
20	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
21	PLD thin films obtained from CrO3 and Cr8O21 targets. Applied Surface Science, 2005, 247, 139-144.	6.1	21
22	Influence of chemical substitution on the photoluminescence of $Sr(1\hat{a}^{-})$ Pb WO4 solid solution. Journal of Solid State Chemistry, 2015, 227, 186-195.	2.9	21
23	Electrocatalytic properties of hydroxyapatite thin films electrodeposited on stainless steel substrates. Mediterranean Journal of Chemistry, 2017, 6, 255-266.	0.7	21
24	Photoelectrocatalytic degradation of rhodamine B pollutant with a novel zinc phosphate photoanode. Chemical Engineering Research and Design, 2021, 148, 200-209.	5.6	20
25	Pulsed laser deposition of thin films of various full Heusler alloys Co2MnX (X=Si, Ga, Ge, Sn, SbSn) at moderate temperature. Applied Surface Science, 2005, 247, 151-156.	6.1	19
26	Carbon nanotubes/ceria composite layers deposited on surface acoustic wave devices for gas detection at room temperature. Thin Solid Films, 2012, 520, 4786-4791.	1.8	19
27	Structural, vibrational study and UV photoluminescence properties of the system Bi _(2â^²x) Lu _(x) WO ₆ (0.1 ≠x ≠1). RSC Advances, 2015, 5, 96242-962.	52 ^{3.6}	18
28	Heusler bulk materials as targets for pulsed laser deposition: growth and characterisation. Journal of Crystal Growth, 2005, 275, e1787-e1792.	1.5	17
29	Photodegradation under UV Light Irradiation of Various Types and Systems of Organic Pollutants in the Presence of a Performant BiPO4 Photocatalyst. Catalysts, 2022, 12, 691.	3.5	17
30	Photocatalytic and photoluminescence properties of CePO4 nanostructures prepared by coprecipitation method and thermal treatment. Optik, 2021, 238, 166683.	2.9	16
31	Microstructure and electrical properties of RuO2–CeO2 composite thin films. Thin Solid Films, 2010, 518, 2801-2807.	1.8	15
32	Electron microscopy analyses and electrical properties of the layered Bi2WO6 phase. Journal of Solid State Chemistry, 2013, 203, 8-18.	2.9	15
33	Role of the chemical substitution on the luminescence properties of solid solutions Ca(1â^'x)Cd(x)WO4 (0â‰xâ‰1). Materials Research Bulletin, 2015, 70, 40-46.	5.2	15
34	Photoluminescence properties of CaWO4 and CdWO4 thin films deposited on SiO2/Si substrates. Journal of Luminescence, 2019, 215, 116619.	3.1	14
35	Luminescent properties under X-ray excitation of Ba(1â^'x)PbxWO4 disordered solid solution. Journal of Solid State Chemistry, 2018, 258, 146-155.	2.9	13
36	Structural, microstructural and vibrational analyses of the monoclinic tungstate BiLuWO6. Journal of Solid State Chemistry, 2014, 218, 124-130.	2.9	12

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37	Ultrasound-assisted electro-oxidation of Methylene blue dye using new Zn3(PO4)2 based electrode prepared by electro-deposition. Materials Today: Proceedings, 2020, 22, 32-34.	1.8	12
38	Cs2Mo3O10. Acta Crystallographica Section C: Crystal Structure Communications, 1999, 55, 273-276.	0.4	11
39	Synthesis, characterization and luminescence properties of manganese phosphate Mn3(PO4)2. Materials Today: Proceedings, 2020, 22, 16-21.	1.8	10
40	Photocatalytic and photoluminescent properties of a system based on SmPO4 nanostructure phase. Materials Today: Proceedings, 2020, 27, 3139-3144.	1.8	10
41	Customized synthesis of functional bismuth phosphate using different methods: photocatalytic and photoluminescence properties enhancement. Nanotechnology for Environmental Engineering, 2021, 6, 1.	3.3	10
42	Physico-chemical characterization of clays from Assa-Zag for valorization in cationic dye methylene blue adsorption. Materials Today: Proceedings, 2020, 22, 22-27.	1.8	8
43	Phase Transformation, Photocatalytic and Photoluminescent Properties of BiPO4 Catalysts Prepared by Solid-State Reaction: Degradation of Rhodamine B. Minerals (Basel, Switzerland), 2021, 11, 1007.	2.0	7
44	High photocatalytic performance of bismuth phosphate and corresponding photodegradation mechanism of Rhodamine B. Research on Chemical Intermediates, 2022, 48, 3315-3334.	2.7	7
45	X-ray diffraction and microscopy investigations of structural inhomogeneities in NiMnSb crystallised from the melt. European Physical Journal Special Topics, 2004, 118, 343-350.	0.2	6
46	Temperature Dependent Electrical Properties and Catalytic Activities of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:msub> <mml:mrow> <mml:mtext> La < Advances in Materials Science and Engineering, 2009, 2009, 1-4.</mml:mtext></mml:mrow></mml:msub></mml:mrow></mml:math>	/m m& mte	xt>&/mml:mrc
47	Optimization of Cr8O21 targets for Pulsed Laser Deposition. Crystal Research and Technology, 2005, 40, 1124-1127.	1.3	4
48	Electrical properties and reactivity under air–CO flows of composite systems based on ceria coated carbon nanotubes. Chemical Engineering Journal, 2011, 171, 272-278.	12.7	4
49	Structural, vibrational and photoluminescence properties of samarium doped cobalt tungstates. Inumal of Molecular Structure, 2022, 1254, 131983, filme-Dependent Oxidative Capacities of <mmi:math id="M1" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mmi:msub><mmi:mtext>La</mmi:mtext><mmi:mtext><mmi:mtext></mmi:mtext></mmi:mtext></mmi:msub></mmi:math>	3.6	2
50	mathvariant="bold">2 <mml:msub><mml:mtext>O</mml:mtext><mml:mn mathvariant="bold">3</mml:mn></mml:msub> , <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>1.0</td><td>1</td></mml:math>	1.0	1
51	id="M2"> <mml:msub><mml:mtext>Lu</mml:mtext><mml:mn mathyariant="bold">2Infrared spectroscopy analyses of alr-CH4 or air-CO gas flows interacting with polycrystalline CeO2, La2O3 and Lu2O3 oxides. Journal of Rare Earths, 2012, 30, 835-841.</mml:mn </mml:msub>	4.8	1
52	Study of two tungstates Ca _{0.5} Cd _{0.5} WO ₄ and Ca _{0.2} Cd _{0.8} WO ₄ by transmission electron microscopy. Journal of Microscopy, 2016, 261, 14-26.	1.8	1
53	Electrical impedance spectroscopy analyses and optical properties of the bismuth lutetium tungstate BiLuWO ₆ . Ferroelectrics, 2017, 515, 112-119.	0.6	1
54	Role of Chemical Substitution in the Photoluminescence Properties of Cerium Samarium Tungstates Ce(2–x)Smâ,"(WOâ,,,)â,ƒ (0 ≠x ≠0.3). IEEE Transactions on Nuclear Science, 2020, 67, 568-574.	2.0	1

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55	Optimization of Cr8O12 Targets for Pulsed Laser Deposition ChemInform, 2006, 37, no.	0.0	O
56	Full-Heusler Co-based alloys grown by pulsed laser ablation: structural, optical, and magnetic characterizations. , 2006, , .		0
57	Multifunctional rare earth or bismuth oxide materials for catalytic or electrical applications. MATEC Web of Conferences, 2013, 5, 01001.	0.2	O
58	Synthesis, characterization and luminescent properties of Sr1-xPbxWO4solid solution (x=0, 0.5 and 1). IOP Conference Series: Materials Science and Engineering, 2017, 186, 012024.	0.6	0
59	Effects of lutetium doping on the X-ray-excited luminescence properties of theÂtungstate Zn1â^'x Lu x WO4. Research on Chemical Intermediates, 2017, 43, 885-899.	2.7	O
60	Structural, vibrational and luminescence properties of solid solution based on the (1-x/2) Ce2(WO4)3â€+†(x/2) Sm2(WO4)3 system. Journal of Molecular Structure, 2022, , 133045.	3.6	0