

Sylvie Villain

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7191245/publications.pdf>

Version: 2024-02-01

81
papers

1,357
citations

331259

21
h-index

395343

33
g-index

84
all docs

84
docs citations

84
times ranked

1423
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic, electric and thermal properties of cobalt ferrite nanoparticles. Materials Research Bulletin, 2014, 59, 49-58.	2.7	116
2	Preparation, characterization and photocatalytic degradation of Rhodamine B dye over a novel Zn ₃ (PO ₄) ₂ /BiPO ₄ catalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103075.	3.3	89
3	Facile synthesis, characterization and photocatalytic performance of Zn ₃ (PO ₄) ₂ platelets toward photodegradation of Rhodamine B dye. Journal of Environmental Chemical Engineering, 2018, 6, 1840-1847.	3.3	72
4	Carbonatation and Decarbonatation Kinetics in the La ₂ O ₃ -La ₂ O ₂ CO ₃ System under CO ₂ Gas Flows. Advances in Materials Science and Engineering, 2010, 2010, 1-6.	1.0	56
5	Nanostructured ceria: a comparative study from X-ray diffraction, Raman spectroscopy and BET specific surface measurements. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1534-1539.	0.8	55
6	Novel Lu-doped Bi ₂ WO ₆ nanosheets: Synthesis, growth mechanisms and enhanced photocatalytic activity under UV-light irradiation. Ceramics International, 2016, 42, 8552-8558.	2.3	53
7	Emf Measurements on Nanocrystalline Copper-Doped Ceria. Journal of Solid State Chemistry, 1998, 140, 295-299.	1.4	46
8	Synthesis and microstructure of cobalt ferrite nanoparticles. Journal of Crystal Growth, 2010, 312, 2465-2471.	0.7	44
9	Synthesis and characterization of mesoporous geopolymer based on Moroccan kaolinite rich clay. Applied Clay Science, 2020, 196, 105764.	2.6	44
10	Relations between microstructure, electrical percolation and corrosion in metal-insulator composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 328, 67-79.	2.6	39
11	Effects of temperature and Nd composition on non-linear transport properties in substituted Ce _{1-x} Nd _x O ₂ cerium dioxides. Journal of Solid State Chemistry, 2004, 177, 856-865.	1.4	33
12	CuBr by impedance spectroscopy. Solid State Ionics, 1996, 83, 191-198.	1.3	32
13	Enhanced photocatalytic activity of Zn ₃ (PO ₄) ₂ /ZnO composite semiconductor prepared by different methods. Chemical Physics Letters, 2021, 783, 139046.	1.2	32
14	From cerium oxycarbonate to nanostructured ceria: Relations between synthesis, thermal process and morphologies. Journal of Crystal Growth, 2008, 310, 3055-3061.	0.7	27
15	Electrodeposited zinc phosphate hydrate electrodes for electrocatalytic applications. Journal of Applied Electrochemistry, 2019, 49, 163-177.	1.5	25
16	Electrodeposition of Nanocrystalline Silver: A Study of Grain Growth by Measurement of Reversible Electromotive Force. Journal of Physical Chemistry B, 1997, 101, 7452-7454.	1.2	24
17	Structural, vibrational and luminescence properties of the (1-x)CaWO ₄ -xCdWO ₄ system. Journal of Solid State Chemistry, 2014, 219, 127-137.	1.4	24
18	New thermochromic bilayers for optical or electronic switching systems. Thin Solid Films, 2004, 449, 166-172.	0.8	23

#	ARTICLE	IF	CITATIONS
19	Electrical properties of CuI and the phase boundary Cu _{1-x} I. <i>Cul. Solid State Ionics</i> , 1995, 76, 229-235.	1.3	22
20	Structural, vibrational and photoluminescence properties of Sr(1-x)PbxMoO ₄ solid solution synthesized by solid state reaction. <i>Materials Research Bulletin</i> , 2016, 79, 121-132.	2.7	22
21	Role of thermal decomposition process in the photocatalytic or photoluminescence properties of BiPO ₄ polymorphs. <i>Water Environment Research</i> , 2020, 92, 1874-1887.	1.3	22
22	Influence of chemical substitution on the photoluminescence of Sr(1-x)PbWO ₄ solid solution. <i>Journal of Solid State Chemistry</i> , 2015, 227, 186-195.	1.4	21
23	Ionic conductivity of pure sodium pyrophosphate Na ₄ P ₂ O ₇ . <i>Solid State Ionics</i> , 1999, 116, 73-83.	1.3	20
24	Structural, vibrational study and UV photoluminescence properties of the system Bi _{2-2x} Lu _x WO ₆ (0.1 ≤ x ≤ 1). <i>RSC Advances</i> , 2015, 5, 96242-96252.	1.7	18
25	Photodegradation under UV Light Irradiation of Various Types and Systems of Organic Pollutants in the Presence of a Performant BiPO ₄ Photocatalyst. <i>Catalysts</i> , 2022, 12, 691.	1.6	17
26	Chemically treated eggshell wastes as a heterogeneous and eco-friendly catalyst for oximes preparation. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1341-1348.	3.3	16
27	Photocatalytic and photoluminescence properties of CePO ₄ nanostructures prepared by coprecipitation method and thermal treatment. <i>Optik</i> , 2021, 238, 166683.	1.4	16
28	Microstructure and electrical properties of RuO ₂ -CeO ₂ composite thin films. <i>Thin Solid Films</i> , 2010, 518, 2801-2807.	0.8	15
29	Structural, microstructural and surface properties of a specific CeO ₂ -Bi ₂ O ₃ multiphase system obtained at 600°C. <i>Journal of Solid State Chemistry</i> , 2011, 184, 608-614.	1.4	15
30	Role of the chemical substitution on the luminescence properties of solid solutions Ca(1-x)Cd(x)WO ₄ (0 ≤ x ≤ 1). <i>Materials Research Bulletin</i> , 2015, 70, 40-46.	2.7	15
31	Solid State Electrochemical Characterisation of Nanostructured Silver Prepared by Cold-Rolling and Internal Oxidation. <i>Scripta Materialia</i> , 1998, 38, 1003-1007.	2.6	14
32	Catalytic conversion of air-methane flow by nanostructured ruthenium dioxide: FTIR spectroscopy and modeling. <i>Applied Surface Science</i> , 2008, 254, 5675-5682.	3.1	13
33	Structural and Raman Vibrational Studies of CeO ₂ -Bi ₂ O ₃ System. <i>Advances in Materials Science and Engineering</i> , 2009, 2009, 1-4.	1.6	13
34	Synthesis and characterization of nanosized Ce _{1-x} Bi _x O _{2-δ} solid solutions for catalytic applications. <i>Journal of Taibah University for Science</i> , 2010, 4, 1-8.	1.1	13
35	Synthesis of ZnO nanoparticles with tunable size and surface hydroxylation. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	13
36	Effect of WO ₃ Nanoparticles Morphology on the Catalytic Properties. <i>Materials Today: Proceedings</i> , 2016, 3, 230-234.	0.9	13

#	ARTICLE	IF	CITATIONS
37	Luminescent properties under X-ray excitation of Ba(1-x)PbxWO4 disordered solid solution. Journal of Solid State Chemistry, 2018, 258, 146-155.	1.4	13
38	Structure, microstructure, and size dependent catalytic properties of nanostructured ruthenium dioxide. Journal of Solid State Chemistry, 2008, 181, 1005-1016.	1.4	12
39	Electrical Properties of a CeO ₂ -Bi ₂ O ₃ Mix System Elaborated at 600°C. Advances in Materials Science and Engineering, 2012, 2012, 1-11.		
40	Structural modifications of nanostructured ceria CeO ₂ .xH ₂ O during dehydration process. Powder Technology, 2012, 215-216, 66-71.	2.1	12
41	Structural, microstructural and vibrational analyses of the monoclinic tungstate BiLuWO ₆ . Journal of Solid State Chemistry, 2014, 218, 124-130.	1.4	12
42	Nanoparticles and Thin Films of Cerium Dioxides: Relations between Elaboration Process and Microstructure. Journal of Metastable and Nanocrystalline Materials, 2002, 12, 59-72.	0.1	11
43	Oxygen diffusion pathway in the anionic conductor Bi ₂₆ Mo ₉ GeO ₆₈ . Solid State Sciences, 2002, 4, 599-608.	1.5	10
44	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.	1.7	10
45	Multiphase CuO-CeO ₂ thin films by pulsed laser deposition technique: experimental texture evolutions and kinetics modeling. Thin Solid Films, 2004, 458, 98-107.	0.8	10
46	Synthesis, characterization and luminescence properties of manganese phosphate Mn ₃ (PO ₄) ₂ . Materials Today: Proceedings, 2020, 22, 16-21.	0.9	10
47	Photocatalytic and photoluminescent properties of a system based on SmPO ₄ nanostructure phase. Materials Today: Proceedings, 2020, 27, 3139-3144.	0.9	10
48	Customized synthesis of functional bismuth phosphate using different methods: photocatalytic and photoluminescence properties enhancement. Nanotechnology for Environmental Engineering, 2021, 6, 1.	2.0	10
49	Nanocrystalline CuO-x-CeO ₂ Systems: FTIR Analyses of Catalytic Reactions. Materials Science Forum, 2006, 513, 1-14.	0.3	8
50	Physico-chemical characterization of clays from Assa-Zag for valorization in cationic dye methylene blue adsorption. Materials Today: Proceedings, 2020, 22, 22-27.	0.9	8
51	Bovine bone-derived natural hydroxyapatite-supported ZnCl ₂ as a sustainable high efficiency heterogeneous biocatalyst for synthesizing amidoalkyl naphthols. Journal of Physics and Chemistry of Solids, 2022, 163, 110533.	1.9	8
52	Novel synthesis, characterization and optical properties of Lu ₂ O ₃ deposited by electrochemical method. Materials Letters, 2015, 160, 415-418.	1.3	7
53	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.	0.8	7
54	High photocatalytic performance of bismuth phosphate and corresponding photodegradation mechanism of Rhodamine B. Research on Chemical Intermediates, 2022, 48, 3315-3334.	1.3	7

#	ARTICLE	IF	CITATIONS
55	Ce _{1-x} Nd _x O ₂ /Si thin films obtained by pulsed laser deposition: Microstructure and conduction properties. Thin Solid Films, 2008, 516, 3747-3754.	0.8	6
56	Electrical behaviour of catalytic nanostructured CeO ₂ /CuOx composites under air/methane gas impulses. Applied Surface Science, 2007, 253, 7490-7496.	3.1	5
57	Temperature Dependent Electrical Properties and Catalytic Activities of La ₂ O ₃ Advances in Materials Science and Engineering, 2009, 2009, 1-4.		
58	Copper halides as model compounds for study of interfaces in ionic crystals. Ionics, 1996, 2, 208-212.	1.2	4
59	Catalytic behaviors of ruthenium dioxide films deposited on ferroelectrics substrates, by spin coating process. Applied Surface Science, 2007, 254, 1399-1404.	3.1	4
60	Oxygen Diffusion Pathway in the Anionic Conductor Bi ₂₆ Mo ₉ GeO ₆₈ .. ChemInform, 2010, 33, 12-12.	0.1	3
61	RuO ₂ thin films deposited by spin coating on silicon substrates: pH dependence of the microstructure and catalytic properties. Journal of Microscopy, 2010, 237, 246-252.	0.8	3
62	Degradation mechanism of electrodes subjected to alternating potentials: modeling and protection. Corrosion Science, 2002, 44, 657-673.	3.0	2
63	Biocomposite Based on Collagen/Calcium Salts Extraction from Sardine Scales. SSRN Electronic Journal, 0, , .	0.4	2
64	Structural, Electrical and Morphological Properties of Materials Type Sillenite Phase Bi ₁₂ TiO ₂₀ . Chemistry Africa, 2019, 2, 57-66.	1.2	2
65	Potentiality of Cobalt Nanoferrites for Gas Sensors. Sensor Letters, 2011, 9, 2397-2400.	0.4	2
66	Structural, vibrational and photoluminescence properties of samarium doped cobalt tungstates. Journal of Molecular Structure, 2022, 1254, 131983.	1.8	2
67	Chemical Degradation in Thermally Treated Ferrite/Superconductor Multiphase Materials: Modeling Parameters. Journal of Solid State Chemistry, 2001, 160, 332-339.	1.4	1
68	THE INFLUENCE OF COPPER ON MICROSTRUCTURE AND CATALYTIC PROPERTIES OF CeO ₂ THIN FILMS DEPOSITED BY PULSED LASER DEPOSITION. High Temperature Material Processes, 2003, 7, 333-342.	0.2	1
69	Catalytic Studies of RuO ₂ Films Deposited on Ferroelectrics Films by Spin Coating Process. Ferroelectrics, 2008, 371, 34-42.	0.3	1
70	Time-Dependent Oxidative Capacities of La ₂ O ₃ and La ₂ O ₃ /CeO ₂ Catalysts. Journal of Catalysis, 2009, 260, 105-112.	1.0	1
71	Study of two tungstates Ca _{0.5} WO ₄ and Ca _{0.2} Cd _{0.8} WO ₄ by transmission electron microscopy. Journal of Microscopy, 2016, 261, 14-26.	0.8	1
72	Characterization and densification of defect pyrochlore oxide powders ABi ₂ Ta ₅ O ₁₆ (A=Na, Tl). Heliyon, 2019, 5, e01628.	1.4	1

#	ARTICLE	IF	CITATIONS
73	Role of Chemical Substitution in the Photoluminescence Properties of Cerium Samarium Tungstates $Ce_{2-x}Sm_x(WO_4)_3$ ($0 \leq x \leq 0.3$). IEEE Transactions on Nuclear Science, 2020, 67, 568-574.	1.2	1
74	New Method for Preparation of Polycrystalline Langasite for Gas Sensors: Structural Studies. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 191-203.	0.2	1
75	Study of nanostructured materials by solid state electrochemistry. Ionics, 1996, 2, 459-462.	1.2	0
76	Characterisation of Thin Films of the Ferroelectric Material $SrBi_2Ta_2O_9$ Obtained by Sol-Gel Methods on Sr_2RuO_4 (001) Single Crystal Substrate. Ferroelectrics, 2003, 288, 1-9.	0.3	0
77	Elaboration and characterization of europium doped ceria solid solutions. European Physical Journal Special Topics, 2005, 123, 35-39.	0.2	0
78	Multifunctional rare earth or bismuth oxide materials for catalytic or electrical applications. MATEC Web of Conferences, 2013, 5, 01001.	0.1	0
79	Synthesis, characterization and luminescent properties of $Sr_{1-x}Pb_xWO_4$ solid solution ($x=0, 0.5$ and 1). IOP Conference Series: Materials Science and Engineering, 2017, 186, 012024.	0.3	0
80	Comparative Study of Sb_2O_3 (Sb_2O_5) and Ta_2O_5 Doping Effects with TeO_2 on Electrical Properties of \tilde{Bi}_2O_3 . Acta Physica Polonica A, 2016, 130, 862-865.	0.2	0
81	Structural, vibrational and luminescence properties of solid solution based on the $(1-x/2) Ce_2(WO_4)_3 + (x/2) Sm_2(WO_4)_3$ system. Journal of Molecular Structure, 2022, , 133045.	1.8	0