

# Sylvie Villain

## List of Publications by Year in descending order

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citations

331259

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docs citations

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times ranked

1423  
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#	ARTICLE	IF	CITATIONS
1	Bovine bone-derived natural hydroxyapatite-supported ZnCl <sub>2</sub> as a sustainable high efficiency heterogeneous biocatalyst for synthesizing amidoalkyl naphthols. Journal of Physics and Chemistry of Solids, 2022, 163, 110533.	1.9	8
2	Structural, vibrational and photoluminescence properties of samarium doped cobalt tungstates. Journal of Molecular Structure, 2022, 1254, 131983.	1.8	2
3	Structural, vibrational and luminescence properties of solid solution based on the (1-x/2) Ce <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> +x/2 Sm <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> system. Journal of Molecular Structure, 2022, , 133045.	1.8	0
4	High photocatalytic performance of bismuth phosphate and corresponding photodegradation mechanism of Rhodamine B. Research on Chemical Intermediates, 2022, 48, 3315-3334.	1.3	7
5	Photodegradation under UV Light Irradiation of Various Types and Systems of Organic Pollutants in the Presence of a Performant BiPO <sub>4</sub> Photocatalyst. Catalysts, 2022, 12, 691.	1.6	17
6	Customized synthesis of functional bismuth phosphate using different methods: photocatalytic and photoluminescence properties enhancement. Nanotechnology for Environmental Engineering, 2021, 6, 1.	2.0	10
7	Photocatalytic and photoluminescence properties of CePO <sub>4</sub> nanostructures prepared by coprecipitation method and thermal treatment. Optik, 2021, 238, 166683.	1.4	16
8	Phase Transformation, Photocatalytic and Photoluminescent Properties of BiPO <sub>4</sub> Catalysts Prepared by Solid-State Reaction: Degradation of Rhodamine B. Minerals (Basel, Switzerland), 2021, 11, 1007.	0.8	7
9	Enhanced photocatalytic activity of Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> /ZnO composite semiconductor prepared by different methods. Chemical Physics Letters, 2021, 783, 139046.	1.2	32
10	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
11	Synthesis, characterization and luminescence properties of manganese phosphate Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> . Materials Today: Proceedings, 2020, 22, 16-21.	0.9	10
12	Role of Chemical Substitution in the Photoluminescence Properties of Cerium Samarium Tungstates Ce(2-x)Sm <sub>x</sub> (WO <sub>4</sub> ) <sub>3</sub> (0 ≤ x ≤ 0.3). IEEE Transactions on Nuclear Science, 2020, 67, 568-574.	1.2	1
13	Synthesis and characterization of mesoporous geopolymer based on Moroccan kaolinite rich clay. Applied Clay Science, 2020, 196, 105764.	2.6	44
14	Photocatalytic and photoluminescent properties of a system based on SmPO <sub>4</sub> nanostructure phase. Materials Today: Proceedings, 2020, 27, 3139-3144.	0.9	10
15	Role of thermal decomposition process in the photocatalytic or photoluminescence properties of BiPO <sub>4</sub> polymorphs. Water Environment Research, 2020, 92, 1874-1887.	1.3	22
16	Characterization and densification of defect pyrochlore oxide powders ABi <sub>2</sub> Ta <sub>5</sub> O <sub>16</sub> (A=Na, Tl). Heliyon, 2019, 5, e01628.	1.4	1
17	Preparation, characterization and photocatalytic degradation of Rhodamine B dye over a novel Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> /BiPO <sub>4</sub> catalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103075.	3.3	89
18	Structural, Electrical and Morphological Properties of Materials Type Sillenite Phase Bi <sub>12</sub> TiO <sub>20</sub> . Chemistry Africa, 2019, 2, 57-66.	1.2	2

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19	Electrodeposited zinc phosphate hydrate electrodes for electrocatalytic applications. Journal of Applied Electrochemistry, 2019, 49, 163-177.	1.5	25
20	Facile synthesis, characterization and photocatalytic performance of Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> platelets toward photodegradation of Rhodamine B dye. Journal of Environmental Chemical Engineering, 2018, 6, 1840-1847.	3.3	72
21	Luminescent properties under X-ray excitation of Ba(1- <i>x</i> )Pb <sub>x</sub> WO <sub>4</sub> disordered solid solution. Journal of Solid State Chemistry, 2018, 258, 146-155.	1.4	13
22	Chemically treated eggshell wastes as a heterogeneous and eco-friendly catalyst for oximes preparation. Journal of Environmental Chemical Engineering, 2017, 5, 1341-1348.	3.3	16
23	Synthesis, characterization and luminescent properties of Sr <sub>1-x</sub> Pb <sub>x</sub> WO <sub>4</sub> solid solution ( <i>x</i> =0, 0.5 and 1). IOP Conference Series: Materials Science and Engineering, 2017, 186, 012024.	0.3	0
24	Study of two tungstates Ca <sub>0.5</sub> Cd <sub>0.5</sub> WO <sub>4</sub> and Ca <sub>0.2</sub> Cd <sub>0.8</sub> WO <sub>4</sub> by transmission electron microscopy. Journal of Microscopy, 2016, 261, 14-26.	0.8	1
25	Novel Lu-doped Bi <sub>2</sub> WO <sub>6</sub> nanosheets: Synthesis, growth mechanisms and enhanced photocatalytic activity under UV-light irradiation. Ceramics International, 2016, 42, 8552-8558.	2.3	53
26	Effect of WO <sub>3</sub> Nanoparticles Morphology on the Catalytic Properties. Materials Today: Proceedings, 2016, 3, 230-234.	0.9	13
27	Structural, vibrational and photoluminescence properties of Sr(1- <i>x</i> )Pb <sub>x</sub> MoO <sub>4</sub> solid solution synthesized by solid state reaction. Materials Research Bulletin, 2016, 79, 121-132.	2.7	22
28	Comparative Study of Sb <sub>2</sub> O <sub>3</sub> (Sb <sub>2</sub> O <sub>5</sub> ) and Ta <sub>2</sub> O <sub>5</sub> Doping Effects with TeO <sub>2</sub> on Electrical Properties of ĩ-Bi <sub>2</sub> O <sub>3</sub> . Acta Physica Polonica A, 2016, 130, 862-865.	0.2	0
29	Novel synthesis, characterization and optical properties of Lu <sub>2</sub> O <sub>3</sub> deposited by electrochemical method. Materials Letters, 2015, 160, 415-418.	1.3	7
30	Role of the chemical substitution on the luminescence properties of solid solutions Ca(1- <i>x</i> )Cd( <i>x</i> )WO <sub>4</sub> (0 ≤ <i>x</i> ≤ 1). Materials Research Bulletin, 2015, 70, 40-46.	2.7	15
31	Influence of chemical substitution on the photoluminescence of Sr(1- <i>x</i> )Pb <sub>x</sub> WO <sub>4</sub> solid solution. Journal of Solid State Chemistry, 2015, 227, 186-195.	1.4	21
32	Structural, vibrational study and UV photoluminescence properties of the system Bi(2- <i>x</i> )Lu( <i>x</i> )WO <sub>6</sub> (0.1 ≤ <i>x</i> ≤ 1). RSC Advances, 2015, 5, 96242-96252.	1.7	18
33	Structural, microstructural and vibrational analyses of the monoclinic tungstate BiLuWO <sub>6</sub> . Journal of Solid State Chemistry, 2014, 218, 124-130.	1.4	12
34	Structural, vibrational and luminescence properties of the (1- <i>x</i> )CaWO <sub>4</sub> - <i>x</i> CdWO <sub>4</sub> system. Journal of Solid State Chemistry, 2014, 219, 127-137.	1.4	24
35	Magnetic, electric and thermal properties of cobalt ferrite nanoparticles. Materials Research Bulletin, 2014, 59, 49-58.	2.7	116
36	Synthesis of ZnO nanoparticles with tunable size and surface hydroxylation. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	13

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37	Multifunctional rare earth or bismuth oxide materials for catalytic or electrical applications. MATEC Web of Conferences, 2013, 5, 01001.	0.1	0
38	Electrical Properties of a CeO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> Mix System Elaborated at 600°C. Administrative Materials Express and Engineering, 2012, 1-11.	1.0	1
39	Structural modifications of nanostructured ceria CeO <sub>2</sub> ·xH <sub>2</sub> O during dehydration process. Powder Technology, 2012, 215-216, 66-71.	2.1	12
40	Structural, microstructural and surface properties of a specific CeO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> multiphase system obtained at 600°C. Journal of Solid State Chemistry, 2011, 184, 608-614.	1.4	15
41	Potentiality of Cobalt Nanoferrites for Gas Sensors. Sensor Letters, 2011, 9, 2397-2400.	0.4	2
42	Oxygen Diffusion Pathway in the Anionic Conductor Bi <sub>26</sub> Mo <sub>9</sub> GeO <sub>68</sub> . ChemInform, 2010, 33, 12-12.	0.1	3
43	Synthesis and microstructure of cobalt ferrite nanoparticles. Journal of Crystal Growth, 2010, 312, 2465-2471.	0.7	44
44	Microstructure and electrical properties of RuO <sub>2</sub> -CeO <sub>2</sub> composite thin films. Thin Solid Films, 2010, 518, 2801-2807.	0.8	15
45	RuO <sub>2</sub> 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
46	Carbonatation and Decarbonation Kinetics in the La <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> System under CO <sub>2</sub> Gas Flows. Advances in Materials Science and Engineering, 2010, 2010, 1-6.	1.0	56
47	Synthesis and characterization of nanosized Ce <sub>1-x</sub> Bi <sub>x</sub> O <sub>2-<math>\delta</math></sub> solid solutions for catalytic applications. Journal of Taibah University for Science, 2010, 4, 1-8.	1.1	13
48	Structural and Raman Vibrational Studies of CeO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> System. Advances in Materials Science and Engineering, 2009, 2009, 1-4.	1.0	13
49	Temperature Dependent Electrical Properties and Catalytic Activities of La <sub>2</sub> O <sub>3</sub> Advancing in Materials Science and Engineering, 2009, 2009, 1-4.	1.0	13
50	Structure, microstructure, and size dependent catalytic properties of nanostructured ruthenium dioxide. Journal of Solid State Chemistry, 2008, 181, 1005-1016.	1.4	12
51	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
52	From cerium oxycarbonate to nanostructured ceria: Relations between synthesis, thermal process and morphologies. Journal of Crystal Growth, 2008, 310, 3055-3061.	0.7	27
53	Ce <sub>1-x</sub> Nd <sub>x</sub> O <sub>2-<math>\delta</math></sub> /Si thin films obtained by pulsed laser deposition: Microstructure and conduction properties. Thin Solid Films, 2008, 516, 3747-3754.	0.8	6

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55	Catalytic conversion of air/methane flow by nanostructured ruthenium dioxide: FTIR spectroscopy and modeling. Applied Surface Science, 2008, 254, 5675-5682.	3.1	13
56	Catalytic Studies of RuO <sub>2</sub> Films Deposited on Ferroelectrics Films by Spin Coating Process. Ferroelectrics, 2008, 371, 34-42.	0.3	1
57	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
58	Electrical behaviour of catalytic nanostructured CeO <sub>2</sub> /CuOx composites under air/methane gas impulses. Applied Surface Science, 2007, 253, 7490-7496.	3.1	5
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	Nanocrystalline CuO <sub>x</sub> -CeO <sub>2</sub> Systems: FTIR Analyses of Catalytic Reactions. Materials Science Forum, 2006, 513, 1-14.	0.3	8
61	Elaboration and characterization of europium doped ceria solid solutions. European Physical Journal Special Topics, 2005, 123, 35-39.	0.2	0
62	New thermochromic bilayers for optical or electronic switching systems. Thin Solid Films, 2004, 449, 166-172.	0.8	23
63	Multiphase CuO/CeO <sub>2</sub> thin films by pulsed laser deposition technique: experimental texture evolutions and kinetics modeling. Thin Solid Films, 2004, 458, 98-107.	0.8	10
64	Effects of temperature and Nd composition on non-linear transport properties in substituted Ce <sub>1-x</sub> Nd <sub>x</sub> O <sub>2</sub> cerium dioxides. Journal of Solid State Chemistry, 2004, 177, 856-865.	1.4	33
65	Microstructure modifications and modulated piezoelectric responses in PLZT/Al <sub>2</sub> O <sub>3</sub> composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 97, 74-82.	1.7	10
66	Characterisation of Thin Films of the Ferroelectric Material SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> Obtained by Sol-Gel Methods on Sr <sub>2</sub> RuO <sub>4</sub> (001) Single Crystal Substrate. Ferroelectrics, 2003, 288, 1-9.	0.3	0
67	THE INFLUENCE OF COPPER ON MICROSTRUCTURE AND CATALYTIC PROPERTIES OF CeO <sub>2</sub> THIN FILMS DEPOSITED BY PULSED LASER DEPOSITION. High Temperature Material Processes, 2003, 7, 333-342.	0.2	1
68	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
69	Degradation mechanism of electrodes subjected to alternating potentials: modeling and protection. Corrosion Science, 2002, 44, 657-673.	3.0	2
70	Oxygen diffusion pathway in the anionic conductor Bi <sub>26</sub> Mo <sub>9</sub> GeO <sub>68</sub> . Solid State Sciences, 2002, 4, 599-608.	1.5	10
71	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
72	Chemical Degradation in Thermally Treated Ferrite/Superconductor Multiphase Materials: Modeling Parameters. Journal of Solid State Chemistry, 2001, 160, 332-339.	1.4	1

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73	Ionic conductivity of pure sodium pyrophosphate Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> . Solid State Ionics, 1999, 116, 73-83.	1.3	20
74	Solid State Electrochemical Characterisation of Nanostructured Silver Prepared by Cold-Rolling and Internal Oxidation. Scripta Materialia, 1998, 38, 1003-1007.	2.6	14
75	Emf Measurements on Nanocrystalline Copper-Doped Ceria. Journal of Solid State Chemistry, 1998, 140, 295-299.	1.4	46
76	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
77	Study of nanostructured materials by solid state electrochemistry. Ionics, 1996, 2, 459-462.	1.2	0
78	Copper halides as model compounds for study of interfaces in ionic crystals. Ionics, 1996, 2, 208-212.	1.2	4
79	CuBr by impedance spectroscopy. Solid State Ionics, 1996, 83, 191-198.	1.3	32
80	Electrical properties of CuI and the phase boundary Cu <sup>+</sup>  CuI. Solid State Ionics, 1995, 76, 229-235.	1.3	22
81	Biocomposite Based on Collagen/Calcium Salts Extraction from Sardine Scales. SSRN Electronic Journal, 0, , .	0.4	2