

Abdeljalil Benlhachemi

List of Publications by Year in descending order

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304743

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72
all docs

72
docs citations

72
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	High photocatalytic activity for the degradation of rhodamine B in water. International Journal of Environmental Science and Technology, 2022, 19, 8825-8834.	3.5	1
2	Z-scheme WO ₃ /PANI heterojunctions with enhanced photocatalytic activity under visible light: A depth experimental and DFT studies. Chemosphere, 2022, 292, 133468.	8.2	53
3	Recent advances of bismuth titanate based photocatalysts engineering for enhanced organic contaminates oxidation in water: A review. Chemosphere, 2022, 300, 134622.	8.2	40
4	High photocatalytic performance of bismuth phosphate and corresponding photodegradation mechanism of Rhodamine B. Research on Chemical Intermediates, 2022, 48, 3315-3334.	2.7	7
5	Photodegradation under UV Light Irradiation of Various Types and Systems of Organic Pollutants in the Presence of a Performant BiPO ₄ Photocatalyst. Catalysts, 2022, 12, 691.	3.5	17
6	Elaboration and properties of a new SDS/CTAB@Montmorillonite organoclay composite as a superb adsorbent for the removal of malachite green from aqueous solutions. Separation and Purification Technology, 2021, 255, 117335.	7.9	66
7	Photoelectrocatalytic degradation of rhodamine B pollutant with a novel zinc phosphate photoanode. Chemical Engineering Research and Design, 2021, 148, 200-209.	5.6	20
8	Customized synthesis of functional bismuth phosphate using different methods: photocatalytic and photoluminescence properties enhancement. Nanotechnology for Environmental Engineering, 2021, 6, 1.	3.3	10
9	Glucose-assisted ball milling preparation of silver-doped biphasic TiO ₂ for efficient photodegradation of Rhodamine B: Effect of silver-dopant loading. Chemical Physics Letters, 2021, 770, 138456.	2.6	27
10	Photocatalytic and photoluminescence properties of CePO ₄ nanostructures prepared by coprecipitation method and thermal treatment. Optik, 2021, 238, 166683.	2.9	16
11	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
12	Enhanced photocatalytic activity of Zn ₃ (PO ₄) ₂ /ZnO composite semiconductor prepared by different methods. Chemical Physics Letters, 2021, 783, 139046.	2.6	32
13	Photocatalytic degradation of sulfadiazine by Zn ₃ (PO ₄) ₂ /BiPO ₄ composites upon UV light irradiation. Materials Today: Proceedings, 2020, 22, 48-51.	1.8	36
14	Ultrasound-assisted electro-oxidation of Methylene blue dye using new Zn ₃ (PO ₄) ₂ based electrode prepared by electro-deposition. Materials Today: Proceedings, 2020, 22, 32-34.	1.8	12
15	Correlation between photoluminescence and photoelectrochemical properties of SrHPO ₄ /BaHPO ₄ /FTO anode material. Optical Materials, 2020, 109, 110268.	3.6	13
16	Barium Hydrogen Phosphate Electrodes for High Electrocatalytic and Photoelectrocatalytic Degradation of Rhodamine B in Neutral Medium: Optimization by Response Surface Methodology. Electroanalysis, 2020, 11, 642-654.	3.0	15
17	Photo-electrochemical degradation of wastewaters containing organics catalysed by phosphate-based materials: a review. Reviews in Environmental Science and Biotechnology, 2020, 19, 843-872.	8.1	31
18	Hierarchical flower-like SrHPO ₄ electrodes for the photoelectrochemical degradation of Rhodamine B. Journal of Applied Electrochemistry, 2020, 50, 569-581.	2.9	33

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19	Influence of Sr-doping on structural, optical and photocatalytic properties of synthesized $\text{Ca}_3(\text{PO}_4)_2$. Journal of Colloid and Interface Science, 2020, 572, 269-280.	9.4	90
20	Photocatalytic and photoluminescent properties of a system based on SmPO_4 nanostructure phase. Materials Today: Proceedings, 2020, 27, 3139-3144.	1.8	10
21	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
22	Recent progress on the enhancement of photocatalytic properties of BiPO_4 using "conjugated materials. Advances in Colloid and Interface Science, 2020, 280, 102160.	14.7	87
23	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
24	Preparation, characterization and photocatalytic degradation of Rhodamine B dye over a novel $\text{Zn}_3(\text{PO}_4)_2/\text{BiPO}_4$ catalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103075.	6.7	89
25	Electrosynthesis of zinc phosphate-polypyrrole coatings for improved corrosion resistance of steel. Surfaces and Interfaces, 2019, 15, 224-231.	3.0	34
26	Electrodeposited zinc phosphate hydrate electrodes for electrocatalytic applications. Journal of Applied Electrochemistry, 2019, 49, 163-177.	2.9	25
27	Facile synthesis, characterization and photocatalytic performance of $\text{Zn}_3(\text{PO}_4)_2$ platelets toward photodegradation of Rhodamine B dye. Journal of Environmental Chemical Engineering, 2018, 6, 1840-1847.	6.7	72
28	Luminescent properties under X-ray excitation of $\text{Ba}(1-x)\text{Pb}x\text{WO}_4$ disordered solid solution. Journal of Solid State Chemistry, 2018, 258, 146-155.	2.9	13
29	Photo/Electrocatalytic Properties of Nanocrystalline ZnO and "Doped ZnO: Combined DFT Fundamental Semiconducting Properties and Experimental Study. ChemistrySelect, 2018, 3, 7778-7791.	1.5	34
30	Chemically treated eggshell wastes as a heterogeneous and eco-friendly catalyst for oximes preparation. Journal of Environmental Chemical Engineering, 2017, 5, 1341-1348.	6.7	16
31	Synthesis, characterization and luminescent properties of $\text{Sr}_{1-x}\text{Pb}x\text{WO}_4$ solid solution ($x=0, 0.5$ and 1). IOP Conference Series: Materials Science and Engineering, 2017, 186, 012024.	0.6	0
32	Electrical impedance spectroscopy analyses and optical properties of the bismuth lutetium tungstate BiLuWO_6 . Ferroelectrics, 2017, 515, 112-119.	0.6	1
33	Effects of lutetium doping on the X-ray-excited luminescence properties of the tungstate $\text{Zn}_{1-x}\text{Lu}x\text{WO}_4$. Research on Chemical Intermediates, 2017, 43, 885-899.	2.7	0
34	Electrocatalytic properties of hydroxyapatite thin films electrodeposited on stainless steel substrates. Mediterranean Journal of Chemistry, 2017, 6, 255-266.	0.7	21
35	Study of two tungstates $\text{Ca}_{0.5}\text{Cd}_{0.5}\text{WO}_4$ and $\text{Ca}_{0.2}\text{Cd}_{0.8}\text{WO}_4$ by transmission electron microscopy. Journal of Microscopy, 2016, 261, 14-26.	1.8	1
36	Electronic band structure and visible-light photocatalytic activity of Bi_2WO_6 : elucidating the effect of lutetium doping. RSC Advances, 2016, 6, 101105-101114.	3.6	57

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37	Congo red removal by PANi/Bi ₂ WO ₆ nanocomposites: Kinetic, equilibrium and thermodynamic studies. Journal of Environmental Chemical Engineering, 2016, 4, 3096-3105.	6.7	51
38	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.	4.8	53
39	Structural, vibrational and photoluminescence properties of Sr(1-x)Pb _x MoO ₄ solid solution synthesized by solid state reaction. Materials Research Bulletin, 2016, 79, 121-132.	5.2	22
40	Novel synthesis, characterization and optical properties of Lu ₂ O ₃ deposited by electrochemical method. Materials Letters, 2015, 160, 415-418.	2.6	7
41	Role of the chemical substitution on the luminescence properties of solid solutions Ca(1-x)Cd(x)WO ₄ (0 ≤ x ≤ 1). Materials Research Bulletin, 2015, 70, 40-46.	5.2	15
42	Influence of chemical substitution on the photoluminescence of Sr(1-x)Pb _x WO ₄ solid solution. Journal of Solid State Chemistry, 2015, 227, 186-195.	2.9	21
43	Structural, vibrational study and UV photoluminescence properties of the system Bi _{2-2x} Lu _x WO ₆ (0.1 ≤ x ≤ 1). RSC Advances, 2015, 5, 96242-96252.	3.6	18
44	Rietveld refinements, impedance spectroscopy and phase transition of the polycrystalline ZnMoO ₄ ceramics. Ceramics International, 2015, 41, 15193-15201.	4.8	28
45	Structural, microstructural and vibrational analyses of the monoclinic tungstate BiLuWO ₆ . Journal of Solid State Chemistry, 2014, 218, 124-130.	2.9	12
46	Structural, vibrational and luminescence properties of the (1-x)CaWO ₄ -xCdWO ₄ system. Journal of Solid State Chemistry, 2014, 219, 127-137.	2.9	24
47	Electron microscopy analyses and electrical properties of the layered Bi ₂ WO ₆ phase. Journal of Solid State Chemistry, 2013, 203, 8-18.	2.9	15
48	Multifunctional rare earth or bismuth oxide materials for catalytic or electrical applications. MATEC Web of Conferences, 2013, 5, 01001.	0.2	0
49	Electrical Properties of a CeO ₂ -xLa ₂ O ₃ system. Journal of Solid State Chemistry, 2012, 201, 1-11.	1.8	12
50	Time-Dependent Oxidative Capacities of CeO ₂ -xLa ₂ O ₃ System. Journal of Solid State Chemistry, 2012, 201, 1-11.	1.0	1
51	Infrared spectroscopy analyses of air-CH ₄ or air-CO gas flows interacting with polycrystalline CeO ₂ , La ₂ O ₃ and Lu ₂ O ₃ oxides. Journal of Rare Earths, 2012, 30, 835-841.	4.8	1
52	Structural modifications of nanostructured ceria CeO ₂ ·xH ₂ O during dehydration process. Powder Technology, 2012, 215-216, 66-71.	4.2	12
53	Structural, microstructural and surface properties of a specific CeO ₂ -Bi ₂ O ₃ multiphase system obtained at 600°C. Journal of Solid State Chemistry, 2011, 184, 608-614.	2.9	15
54	Carbonatation and Decarbonation Kinetics in the La ₂ O ₃ -CO ₂ System under CO ₂ Gas Flows. Advances in Materials Science and Engineering, 2010, 2010, 1-6.	1.8	56

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55	Synthesis and characterization of nanosized $Ce_{1-x}Bi_xO_{2-\delta}$ solid solutions for catalytic applications. Journal of Taibah University for Science, 2010, 4, 1-8.	2.5	13
56	Structural and Raman Vibrational Studies of CeO_2 System. Advances in Materials Science and Engineering, 2009, 2009, 1-4.	1.8	13
57	Temperature Dependent Electrical Properties and Catalytic Activities of $La_{1-x}Bi_xO_{3-\delta}$ System. Advances in Materials Science and Engineering, 2009, 2009, 1-4.	1.8	13
58	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.	0.3	1
59	Effect of the heat treatment on the corrosion behaviour of amorphous Fe-Cr-P-C-Si alloy in 0.5M H ₂ SO ₄ . Applied Surface Science, 2006, 252, 7921-7925.	6.1	20
60	Hydrostatic compression on YBa ₂ Cu ₃ O _{7-δ} /polymer composites. European Physical Journal Special Topics, 2005, 123, 295-299.	0.2	1
61	Elaboration and characterization of europium doped ceria solid solutions. European Physical Journal Special Topics, 2005, 123, 35-39.	0.2	0
62	The influence of synthesis way and dopant on the crystallites size of ceria. European Physical Journal Special Topics, 2005, 123, 125-130.	0.2	2
63	Magnetic field expulsion in superconducting granular ceramics and in polymer/superconductor composites. European Physical Journal Special Topics, 1998, 08, Pr1-35-Pr1-44.	0.2	1
64	Modélisation des propriétés électriques d'un composite supraconducteur. European Physical Journal Special Topics, 1998, 08, Pr1-13-Pr1-19.	0.2	0
65	High-Tc superconductor/silver composites A new direct preparation process. Physica C: Superconductivity and Its Applications, 1996, 262, 111-119.	1.2	3
66	Sintering effects in superconducting Fe-based YBCO composites: simulation of electrical resistances at low temperature. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 39, 1-7.	3.5	5
67	High-Tc superconductor/polymer composites. Modeling of abnormal electrical properties at low temperature. Physica C: Superconductivity and Its Applications, 1994, 230, 246-254.	1.2	12
68	Studies and modelling of magnetic properties of HTc superconductor / polymer composites. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2877-2878.	1.2	0
69	Studies and modeling of electrical properties of HTc superconductor-polymer composites. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1511-1512.	1.2	5
70	Elaboration and variable properties of 2223 BSCCO superconductor-polymer composites. Physica C: Superconductivity and Its Applications, 1993, 209, 353-361.	1.2	18