

Plamen Stefanov

List of Publications by Year in descending order

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33
papers

629
citations

567281

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868
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, photoluminescent and photocatalytic properties of TiO ₂ :Eu ³⁺ coatings formed by plasma electrolytic oxidation. <i>Applied Surface Science</i> , 2016, 370, 218-228.	6.1	76
2	X-ray photoelectron spectroscopy, temperature-programmed desorption and temperature-programmed reduction study of LaNiO ₃ and La ₂ NiO ₄ +? catalysts for methanol oxidation. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 1987.	1.7	70
3	Cobalt-iron hydroxide carbonate as a precursor for the synthesis of high-dispersity spinel mixed oxides. <i>Chemistry of Materials</i> , 1993, 5, 576-582.	6.7	58
4	An investigation of a new regeneration method of commercial aged three-way catalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 93-100.	20.2	41
5	The formation of tungsten doped Al ₂ O ₃ /ZnO coatings on aluminum by plasma electrolytic oxidation and their application in photocatalysis. <i>Applied Surface Science</i> , 2016, 377, 37-43.	6.1	40
6	TiO ₂ /WO ₃ photocatalytic composite coatings prepared by spray pyrolysis. <i>Surface and Coatings Technology</i> , 2014, 258, 763-771.	4.8	38
7	Montmorillonite/poly(urethane-siloxane) nanocomposites: Morphological, thermal, mechanical and surface properties. <i>Applied Clay Science</i> , 2017, 149, 136-146.	5.2	34
8	Anodic luminescence, structural, photoluminescent, and photocatalytic properties of anodic oxide films grown on niobium in phosphoric acid. <i>Applied Surface Science</i> , 2015, 355, 912-920.	6.1	31
9	Self-healing effect of ceria electrodeposited thin films on stainless steel in aggressive 0.5 mol/L NaCl aqueous solution. <i>Journal of Rare Earths</i> , 2015, 33, 1212-1227.	4.8	28
10	Photodegradation of an azo pyridone dye using TiO ₂ films prepared by the spray pyrolysis method. <i>Chemical Engineering Journal</i> , 2012, 180, 57-65.	12.7	22
11	Oxidation of n-hexane over Pt and Cu-Co oxide catalysts supported on a thin-film zirconia/stainless steel carrier. <i>Catalysis Communications</i> , 2008, 9, 1111-1118.	3.3	21
12	The thermal stability of porous alumina/stainless steel catalyst support obtained by spray pyrolysis. <i>Applied Surface Science</i> , 2008, 255, 3049-3055.	6.1	20
13	Catalytic activity of Pt catalysts promoted by MnO _x for n-hexane oxidation. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 327-332.	20.2	17
14	Mechanochemical synthesis, characterization and catalytic activity of Bi ₂ WO ₆ nanoparticles in CO, n-hexane and methane oxidation reactions. <i>Journal of Alloys and Compounds</i> , 2013, 570, 34-40.	5.5	17
15	CeO _x /Al ₂ O ₃ thin films on stainless steel substrate – Dynamical X-ray photoelectron spectroscopy investigations. <i>Thin Solid Films</i> , 2013, 536, 63-67.	1.8	15
16	Mechanochemically assisted solid state synthesis, characterization, and catalytic properties of MgWO ₄ . <i>Journal of Materials Science</i> , 2015, 50, 3447-3456.	3.7	15
17	Mechanical and Structural Properties of Nanocomposite CrAlSiN-Coating with Periodically Modulated Composition. <i>Coatings</i> , 2020, 10, 41.	2.6	13
18	Effect of cerium oxide doping on the photocatalytic properties of rutile TiO ₂ films prepared by spray pyrolysis. <i>Physica B: Condensed Matter</i> , 2020, 599, 412544.	2.7	12

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19	Effects of annealing and oxygen adsorption on the surface. Composition of thin Ni-Mg alloy films. Applied Surface Science, 1997, 108, 477-484.	6.1	11
20	Effect of high energy ball milling on the physicochemical properties of TiO ₂ -CeO ₂ mixed oxide and its photocatalytic behavior in the oxidation reaction. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 175-186.	1.7	11
21	Effects of organic additives on alumina coatings on stainless steel obtained by spray pyrolysis. Journal of Non-Crystalline Solids, 2011, 357, 3592-3597.	3.1	8
22	Iron Phosphide Precatalyst for Electrocatalytic Degradation of Rhodamine B Dye and Removal of Escherichia coli from Simulated Wastewater. Catalysts, 2022, 12, 269.	3.5	7
23	TiO ₂ -CeO ₂ composite coatings for photocatalytic degradation of chloropesticide and organic dye. Journal of Materials Science: Materials in Electronics, 2022, 33, 5073-5086.	2.2	6
24	Composition and Interface Chemistry Dependence in Ohmic Contacts to GaN HEMT Structures on the Ti/Al Ratio and Annealing Conditions. Materials Science Forum, 0, 615-617, 951-954.	0.3	5
25	Preparation of ZrO ₂ and Al ₂ O ₃ Thin-Films on Stainless Steel by Spray Pyrolysis. Materials Science Forum, 2007, 555, 321-326.	0.3	3
26	On the stabilization of the oxidized state of palladium by CuWO ₄ for application as catalyst in abatement of C ₁ -C ₄ hydrocarbons emissions. Materials Research Express, 2019, 6, 085554.	1.6	3
27	Preparation and Characterization of Al ₂ O ₃ Thin Films for Catalytic Activity Studies. Solid State Phenomena, 2010, 159, 91-96.	0.3	2
28	Preparation and characterization of Pt-Ba-Al ₂ O ₃ coatings obtained by spray pyrolysis. Thin Solid Films, 2017, 628, 7-12.	1.8	2
29	Monitoring the surface states of a low-temperature carbon monoxide shift catalyst during operation. Applied Catalysis, 1988, 40, 131-138.	0.8	1
30	Characterization and reactivity of Pt/Al ₂ O ₃ /SS thin films. Reaction Kinetics and Catalysis Letters, 2005, 84, 121-127.	0.6	1
31	Gas-sensing properties of metal-oxide nanostructures produced by PLD. , 2019, , .		1
32	CuBr laser ablation of titanium surface. Proceedings of SPIE, 2015, , .	0.8	0
33	Light irradiation effect on the gas sensing properties of the ZnO nanostructures. , 2019, , .		0