

Virginia Danciu

List of Publications by Year in descending order

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53
papers

986
citations

430754

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times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	The photocatalytic activity of TiO ₂ /WO ₃ /noble metal (Au or Pt) nanoarchitectures obtained by selective photodeposition. <i>Catalysis Today</i> , 2013, 208, 19-27.	2.2	81
2	Photocatalytic hydrogen production using TiO ₂ @Pt aerogels. <i>Chemical Engineering Journal</i> , 2014, 242, 96-101.	6.6	66
3	Synthesis and structural characteristics of carbon aerogels with a high content of Fe, Co, Ni, Cu, and Pd. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2772-2777.	1.5	56
4	Bismuth doped carbon xerogel nanocomposite incorporated in chitosan matrix for ultrasensitive voltammetric detection of Pb(II) and Cd(II). <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 712-719.	4.0	46
5	Synthesis and structural characteristics of nitrogen doped TiO ₂ aerogels. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 80-86.	2.2	41
6	The influence of rapid heat treatment in still air on the photocatalytic activity of titania photocatalysts for phenol and monuron degradation. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 461-470.	10.8	40
7	TiO ₂ /WO ₃ /Au nanoarchitectures TM photocatalytic activity, TM from degradation intermediates to catalysts TM structural peculiarities TM , Part I: Aeroxide P25 based composites. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 508-517.	10.8	37
8	Preparation of TiO ₂ /WO ₃ composite photocatalysts by the adjustment of the semiconductors' surface charge. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 66-71.	1.9	34
9	Changes in the microbiological and chemical characteristics of white bread during storage in paper packages modified with Ag/TiO ₂ @SiO ₂ , Ag/N@TiO ₂ or Au/TiO ₂ . <i>Food Chemistry</i> , 2016, 197, 790-798.	4.2	31
10	Efficient dual functionality of highly porous nanocomposites based on TiO ₂ and noble metal particles. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2672-2678.	2.8	30
11	Iron doped carbon aerogel @ New electrode material for electrocatalytic reduction of H ₂ O ₂ . <i>Materials Chemistry and Physics</i> , 2013, 138, 893-898.	2.0	29
12	Synthesis of Shape-Tailored WO ₃ Micro-/Nanocrystals and the Photocatalytic Activity of WO ₃ /TiO ₂ Composites. <i>Materials</i> , 2016, 9, 258.	1.3	28
13	Versatile self-assembled graphene oxide membranes obtained under ambient conditions by using a water@ethanol suspension. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2132-2142.	5.2	26
14	Polyhedral Pt vs. spherical Pt nanoparticles on commercial titanias: Is shape tailoring a guarantee of achieving high activity?. <i>Journal of Catalysis</i> , 2015, 325, 156-167.	3.1	24
15	Correlating the visible light photoactivity of N-doped TiO ₂ with brookite particle size and bridged-nitro surface species. <i>Catalysis Communications</i> , 2012, 17, 1-7.	1.6	23
16	Shape-controlled agglomeration of TiO ₂ nanoparticles. New insights on polycrystallinity vs. single crystals in photocatalysis. <i>Ceramics International</i> , 2016, 42, 3077-3087.	2.3	22
17	Photocatalytic, Morphological and Structural Properties of the TiO ₂ -SiO ₂ -Ag Porous Structures Based System. <i>Materials</i> , 2015, 8, 1059-1073.	1.3	20
18	Porous nanoarchitectures based on TiO ₂ aerogels and Au particles as potential SERS sensor for monitoring of water quality. <i>Vibrational Spectroscopy</i> , 2008, 48, 206-209.	1.2	19

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19	Behavior of gold nanoparticles in a titania aerogel matrix: Photocatalytic activity assessment and structure investigations. Chinese Journal of Catalysis, 2013, 34, 734-740.	6.9	19
20	Silver functionalized titania-silica xerogels: Preparation, morpho-structural and photocatalytic properties, kinetic modeling. Journal of Alloys and Compounds, 2015, 648, 890-902.	2.8	18
21	Pt/Ni@TiO ₂ Aerogel Composites Used for Hydrogen Production Via Photocatalysis Process. Catalysis Letters, 2014, 144, 1955-1961.	1.4	16
22	Carbon Aerogel as Electrode Material for Improved Direct Electron Transfer in Biosensors Incorporating Cellobiose Dehydrogenase. Electroanalysis, 2016, 28, 2311-2319.	1.5	16
23	Mapping the Photocatalytic Activity and Ecotoxicology of Au, Pt/TiO ₂ Composite Photocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 12993-13006.	3.2	16
24	Structural evolution and optical properties of C-coated TiO ₂ nanoparticles prepared by laser pyrolysis. Applied Surface Science, 2013, 278, 295-300.	3.1	15
25	Insights into the morphological and structural particularities of highly sensitive porous bismuth-carbon nanocomposites based electrochemical sensors. Sensors and Actuators B: Chemical, 2018, 268, 398-410.	4.0	15
26	TiO ₂ /WO ₃ /Au/MWCNT composite materials for photocatalytic hydrogen production: Advantages and drawbacks. Physica Status Solidi (B): Basic Research, 2012, 249, 2592-2595.	0.7	14
27	Synthesis and characterization of TiO ₂ /C nanomaterials: Applications in water treatment. Physica Status Solidi (B): Basic Research, 2015, 252, 2503-2511.	0.7	14
28	Optical Properties of Composites Based on Graphene Oxide and Polystyrene. Molecules, 2020, 25, 2419.	1.7	14
29	Shape tailored Pd nanoparticles' effect on the photocatalytic activity of commercial TiO ₂ . Catalysis Today, 2017, 284, 137-145.	2.2	13
30	Recent progress in the synthesis of magnetic titania/iron-based, composite nanoparticles manufactured by laser pyrolysis. Applied Surface Science, 2014, 302, 198-204.	3.1	12
31	Differently Shaped Au Nanoparticles: A Case Study on the Enhancement of the Photocatalytic Activity of Commercial TiO ₂ . Materials, 2015, 8, 162-180.	1.3	12
32	Impact of drying procedure on the morphology and structure of TiO ₂ xerogels and the performance of dye sensitized solar cells. Journal of Sol-Gel Science and Technology, 2017, 81, 693-703.	1.1	12
33	Crystallographic holes: new insights for a beneficial structural feature for photocatalytic applications. Nanoscale, 2015, 7, 5776-5786.	2.8	11
34	Structural investigations of TiO ₂ @WO ₃ @Au porous composites. Journal of Molecular Structure, 2014, 1073, 150-156.	1.8	10
35	Electroreduction of aromatic dinitro compounds. III. Role of titanium sulfate as redox mediator. Canadian Journal of Chemistry, 1993, 71, 1136-1146.	0.6	9
36	Photothermal and photocatalytic processes on TiO ₂ based materials prepared by sol-gel method. Journal of Sol-Gel Science and Technology, 2006, 37, 175-178.	1.1	9

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37	Alpha-Cypermethrin Pesticide Adsorption on Carbon Aerogel and Xerogel. Separation Science and Technology, 2013, 48, 2649-2658.	1.3	9
38	Commercial and home-made nitrogen modified titanias. A short reflection about the advantageous/disadvantageous properties of nitrogen doping in the frame of their applicability. Journal of Molecular Structure, 2014, 1073, 157-163.	1.8	9
39	Methanol oxidation at carbon paste electrodes modified with (Pt/Ru)/carbon aerogels nanocomposites. Materials Chemistry and Physics, 2016, 172, 179-188.	2.0	9
40	Nanocrystalline semiconductor materials for solar water-splitting. Journal of Alloys and Compounds, 2009, 483, 445-449.	2.8	8
41	Weighting the influence of TiO ₂ anatase/brookite ratio in TiO ₂ -Ag porous nanocomposites on visible photocatalytic performances. Materials Chemistry and Physics, 2013, 141, 234-239.	2.0	8
42	Determination of 4,4'-diaminostilbene-2,2'-disulfonic acid by thin-layer chromatography and densitometry. Journal of Chromatography A, 1996, 727, 324-329.	1.8	5
43	New insights regarding the calcination as a critical parameter in the synthesis of sol-gel made titania powders. Journal of Sol-Gel Science and Technology, 2013, 65, 277-282.	1.1	5
44	Synthesis and optical properties of TiO ₂ -based magnetic nanocomposites. Applied Surface Science, 2015, 336, 335-342.	3.1	5
45	Detailed Investigation of Phenol Degradation on Au/TiO ₂ Composite Materials. Journal of Nanoscience and Nanotechnology, 2019, 19, 407-413.	0.9	5
46	Structural characterisation of binary SiO ₂ /TiO ₂ nanoparticle aerogels by X-ray scattering. Journal of Physics: Conference Series, 2009, 182, 012066.	0.3	4
47	Electroréduction de dérivés dinitro aromatiques. V. influences du matériau d'électrode et de systémes rédox sur les réductions du 4,4'-dinitrodibenzyle et de l'acide 4,4'-dinitrostilbène-2,2'-disulfonique. Canadian Journal of Chemistry, 1996, 74, 1409-1417.	0.6	3
48	Pyrolysis and combustion of polystyrene composites based on graphene oxide functionalized with 3-(methacryloyloxy)-propyltrimethoxysilane. Journal of Polymer Engineering, 2021, 41, 615-626.	0.6	3
49	TiO ₂ based systems for photoelectrochemical generation of solar hydrogen. Journal of Physics: Conference Series, 2009, 182, 012055.	0.3	2
50	Morphological and structural investigation of the poly(vinyl chloride) / graphene oxide composites. Studia Universitatis Babeş-Bolyai Chemia, 2020, 65, 245-258.	0.1	2
51	Preparation, characterization and gas permeation investigation of resorcinol-formaldehyde polymer or carbon xerogels/tubular ceramic composites. Acta Chimica Slovenica, 2013, 60, 343-50.	0.2	2
52	Indirect reduction of carbonyl and dinitro derivatives by an electrogenerated titanium (III) complex in non aqueous medium. Electrochimica Acta, 1998, 43, 3217-3225.	2.6	1
53	Comparative Study of Two Types of Iron Doped Carbon Aerogels for Electrochemical Applications. Journal of New Materials for Electrochemical Systems, 2013, 16, 097-101.	0.3	0