Aida Rudakova

List of Publications by Year
in descending order

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42	863	687220 13	477173 29
papers	citations	h-index	g-index

43	43	43	1015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectroscopic and Photoluminescence Studies of a Wide Band Gap Insulating Material:Â Powdered and Colloidal ZrO2Sols. Langmuir, 1998, 14, 5011-5022.	1.6	268
2	Influence of the Dopant Concentration on the Photocatalytic Activity: Al-Doped TiO₂. Journal of Physical Chemistry C, 2015, 119, 24695-24703.	1.5	81
3	Photostimulated Reactions at the Surface of Wide Band-Gap Metal Oxides (ZrO2and TiO2): Interdependence of Rates of Reactions on Pressureâ^'Concentration and on Light Intensity. Journal of Physical Chemistry B, 1998, 102, 10906-10916.	1.2	60
4	Factors Affecting UV-Induced Superhydrophilic Conversion of a TiO₂ Surface. Journal of Physical Chemistry C, 2013, 117, 12086-12092.	1.5	47
5	Thermo- and Photo-stimulated Effects on the Optical Properties of Rutile Titania Ceramic Layers Formed on Titanium Substrates. Chemistry of Materials, 2013, 25, 170-177.	3.2	38
6	Solid-state synthesis, characterization, UV-induced coloration and photocatalytic activity â€“ The Sr6Bi2O11, Sr3Bi2O6 and Sr2Bi2O5 bismuthates. Catalysis Today, 2020, 340, 70-85.	2.2	25
7	Effect of the TiO₂â€“ZnO Heterostructure on the Photoinduced Hydrophilic Conversion of TiO₂ and ZnO Surfaces. Journal of Physical Chemistry C, 2019, 123, 8884-8891.	1.5	24
8	Light-Controlled ZrO2 Surface Hydrophilicity. Scientific Reports, 2016, 6, 34285.	1.6	22
9	Self-cleaning properties of zirconium dioxide thin films. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 397-405.	2.0	22
10	Considerations of Trends in Heterogeneous Photocatalysis. Correlations between Conduction and Valence Band Energies with Bandgap Energies of Various Photocatalysts. ChemCatChem, 2019, 11, 3534-3541.	1.8	19
11	Photoinduced hydrophilic conversion of hydrated ZnO surfaces. Journal of Colloid and Interface Science, 2016, 466, 452-460.	5.0	17
12	Influence of the Dopant Concentration on the Photoelectrochemical Behavior of Al-Doped TiO₂. Journal of Physical Chemistry C, 2018, 122, 7975-7981.	1.5	17
13	Antibacterial and Osteogenic Properties of Ag Nanoparticles and Ag/TiO2 Nanostructures Prepared by Atomic Layer Deposition. Journal of Functional Biomaterials, 2022, 13, 62.	1.8	16
14	Dependences of ZnO Photoinduced Hydrophilic Conversion on Light Intensity and Wavelengths. Journal of Physical Chemistry C, 2015, 119, 9824-9828.	1.5	14
15	UV-induced formation of color centers in dispersed TiO2 particles: Effect of thermal treatment, metal (Al) doping, and adsorption of molecules. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 354, 33-46.	2.0	13
16	Raman spectroscopy of SrZrO3 based proton conducting electrolyte: Effect of Y-doping and Sr-nonstoichiometry. International Journal of Hydrogen Energy, 2021, 46, 17007-17018.	3.8	13
17	Photoactive Heterostructures: How They Are Made and Explored. Catalysts, 2021, 11, 294.	1.6	13
18	The origin of 1560 cmâ^'1 band in experimental IR spectra of water adsorbed on TiO2 surface: Ab initio assessment. Chemical Physics Letters, 2016, 662, 97-101.	1.2	12

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19	Phenomenological Rule from Correlations of Conduction/Valence Band Energies and Bandgap Energies in Semiconductor Photocatalysts: Calcium Bismuthates versus Strontium Bismuthates. ChemCatChem, 2020, 12, 1551-1555.	1.8	12
20	Materials synthesis, characterization and DFT calculations of the visible-light-active perovskite-like barium bismuthate Ba_{1.264(4)}Bi_{1.971(4)}O₄ photocatalyst. Journal of Materials Chemistry C, 2020, 8, 3509-3519.	2.7	12
21	Photoinduced Hydrophilicity of Surfaces of Thin Films. Colloid Journal, 2021, 83, 20-48.	0.5	12
22	Photoinduced hydrophilic behavior of TiO2 thin film on Si substrate. Journal of Alloys and Compounds, 2021, 872, 159746.	2.8	12
23	FT-IR Study of Carbon Monoxide Adsorption on Li-Exchanged Zeolite X. Journal of Physical Chemistry B, 2003, 107, 5212-5220.	1.2	11
24	Visibleâ€“NIR Light Absorption of Titania Thermochemically Fabricated from Titanium and its Alloys; UV- and Visible-Light-Induced Photochromism of Yellow Titania. Journal of Physical Chemistry C, 2013, 117, 25852-25864.	1.5	10
25	Photoelectrochemical Behavior of the Ternary Heterostructured Systems CdS/WO3/TiO2. Catalysts, 2019, 9, 999.	1.6	10
26	Effect of resonance dipole-dipole interaction on the infrared spectra of adsorbed CF4. Experimental investigation and theoretical modeling. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 354, 4-10.	2.0	7
27	Recent advances in composite and heterostructured photoactive materials for the photochemical conversion of solar energy. Current Opinion in Green and Sustainable Chemistry, 2022, 34, 100588.	3.2	7
28	IR Spectroscopic Testing of Surfaces in Water Ice and in Icy Mixtures with Prussic Acid or Ammonia. Langmuir, 2009, 25, 1482-1487.	1.6	6
29	Transmission IR cell for atmosphere-controlled studies of photoprocesses on powdered high surface area materials. Review of Scientific Instruments, 2019, 90, 105113.	0.6	6
30	IR spectroscopic study of surface properties of amorphous water ice. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 708-718.	0.2	5
31	UV-induced defect formation in cubic ZrO2. Optical demonstration of Y, Yb and Er dopants interacting with photocarriers. Chemical Physics Letters, 2020, 742, 137136.	1.2	5
32	Effect of the Type of Heterostructures on Photostimulated Alteration of the Surface Hydrophilicity: TiO2/BiVO4 vs. ZnO/BiVO4 Planar Heterostructured Coatings. Catalysts, 2021, 11, 1424.	1.6	5
33	Optical Properties of Various Strontium Bismuthates: Luminescence and UVâ€induced Photocoloration. ChemPhotoChem, 2020, 4, 5209-5222.	1.5	4
34	Effect of Cu2O Substrate on Photoinduced Hydrophilicity of TiO2 and ZnO Nanocoatings. Nanomaterials, 2021, 11, 1526.	1.9	4
35	Surface Modification of Additively Manufactured Nitinol by Wet Chemical Etching. Materials, 2021, 14, 7683.	1.3	4
36	Effect of the Heterovalent Doping of TiO2 with Sc3+ and Nb5+ on the Defect Distribution and Photocatalytic Activity. Catalysts, 2022, 12, 484.	1.6	4

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37	Photoinduced Radical Processes on the Spinel (MgAl2O4) Surface Involving Methane, Ammonia, and Methane/Ammonia. Langmuir, 2012, 28, 7368-7373.	1.6	2
38	MG-63 and FetMSC Cell Response on Atomic Layer Deposited TiO2 Nanolayers Prepared Using Titanium Tetrachloride and Tetraisopropoxide. Coatings, 2022, 12, 668.	1.2	2
39	Spectroscopic study of zeolite Na-ETS-10 and ethylene photopolymerization reaction on its surface. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 739-744.	0.2	1
40	The Study of Photoactive Materials. Reviews and Advances in Chemistry, 2020, 10, 73-111.	0.2	1
41	Spectroscopic studies of ozone in cryosolutions: FT-IR spectra of 16O3 in liquid nitrogen, oxygen, argon and krypton. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 193, 385-392.	2.0	0
42	Editorial: Special Issue on Photocatalytic Nanocomposite Materials (PNMs). Catalysts, 2021, 11, 587.	1.6	0