

Syargei K Poznyak

List of Publications by Year in descending order

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73
papers

3,632
citations

257357

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128225

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all docs

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docs citations

73
times ranked

3810
citing authors

#	ARTICLE	IF	CITATIONS
1	UV-assisted anchoring of gold nanoparticles into TiO ₂ nanotubes for oxygen electroreduction. <i>Journal of Electroanalytical Chemistry</i> , 2022, 904, 115844.	1.9	1
2	Nature of paramagnetic defects in black titanium dioxide nanotubes. <i>Materials Chemistry and Physics</i> , 2022, 278, 125703.	2.0	4
3	Strain Sensing Coatings for Large Composite Structures Based on 2D MXene Nanoparticles. <i>Sensors</i> , 2021, 21, 2378.	2.1	16
4	Electrocatalysis of oxygen reduction reaction on gold nanoparticles modified titanium dioxide films with different morphology. <i>Journal of the Belarusian State University Chemistry</i> , 2020, , 63-75.	0.1	1
5	Electrosynthesis of Ordered TiO ₂ Nanotubular Layers in Deep Eutectic Solvents and Their Properties. <i>Journal of the Electrochemical Society</i> , 2019, 166, H377-H386.	1.3	4
6	Effect of fluoride-mediated transformations on electrocatalytic performance of thermally treated TiO ₂ nanotubular layers. <i>Journal of Fluorine Chemistry</i> , 2019, 221, 34-41.	0.9	7
7	Sol-gel template synthesis of mesoporous carbon-doped TiO ₂ with photocatalytic activity under visible light. <i>Materials Today: Proceedings</i> , 2018, 5, 17422-17430.	0.9	11
8	Encapsulation of Al and Ti-Al alloy 1-D nanorods into oxide matrix by powerful pulsed discharge method. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3913-3920.	1.2	0
9	Synthesis and characterization of efficient TiO ₂ mesoporous photocatalysts. <i>Materials Today: Proceedings</i> , 2017, 4, 11526-11533.	0.9	6
10	Light-Induced Proton Pumping with a Semiconductor: Vision for Photoproton Lateral Separation and Robust Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24282-24289.	4.0	22
11	Ultrasonically Produced Porous Sponge Layer on Titanium to Guide Cell Behavior. <i>Advanced Engineering Materials</i> , 2016, 18, 476-483.	1.6	18
12	Simulation of polycrystalline bismuth films Seebeck coefficient based on experimental texture identification. <i>Materials Chemistry and Physics</i> , 2016, 177, 413-416.	2.0	8
13	Aluminum Anodization in Deionized Water as Electrolyte. <i>Journal of the Electrochemical Society</i> , 2016, 163, C364-C368.	1.3	9
14	Electrocatalytic activity of Au nanoparticles onto TiO ₂ nanotubular layers in oxygen electroreduction reaction: size and support effects. <i>Electrochimica Acta</i> , 2016, 222, 1013-1020.	2.6	16
15	Photocatalytic Deposition of Hydroxyapatite onto a Titanium Dioxide Nanotubular Layer with Fine Tuning of Layer Nanoarchitecture. <i>Langmuir</i> , 2016, 32, 4016-4021.	1.6	10
16	Cyclic voltammetry as a sensitive method for in situ probing of chemical transformations in quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10355-10361.	1.3	5
17	Polycrystalline bismuth films: Correlation between grain structure and electron transport. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2000-2005.	0.7	6
18	Band-gap and sub-band-gap photoelectrochemical processes at nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. <i>Thin Solid Films</i> , 2015, 589, 145-152.	0.8	19

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19	Hierarchical Materials: SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum (Part. Part. Syst.) Tj ETQq1 1 0.784314 rgBT φOverloc	1.4	14
20	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. Particle and Particle Systems Characterization, 2014, 31, 1134-1140.	1.2	18
21	Optical and Photoelectrochemical Properties of Lead Zirconate Titanate Thin Films Obtained by the Sol-Gel Method. Journal of Applied Spectroscopy, 2014, 81, 866-872.	0.3	6
22	Photoelectrochemical and Raman characterization of nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. Thin Solid Films, 2014, 562, 56-62.	0.8	12
23	A study of the anticorrosion properties of carbonate deposits to protect low-carbon steel from the action of tap water. Russian Journal of Applied Chemistry, 2014, 87, 450-455.	0.1	15
24	Electrodeposited Ni-Co Alloy Coatings: Preparation and Properties. Journal of the Electrochemical Society, 2014, 161, D620-D627.	1.3	16
25	Titania Films Obtained by Powerful Pulsed Discharge Oxidation in Phosphoric Acid Electrolytes. Journal of the Electrochemical Society, 2014, 161, D73-D78.	1.3	6
26	Gelatin-templated mesoporous titania for photocatalytic air treatment and application in metal chalcogenide nanoparticle-sensitized solar cells. Photochemical and Photobiological Sciences, 2013, 12, 621-625.	1.6	12
27	Photoelectrochemical and Raman characterization of In ₂ O ₃ mesoporous films sensitized by CdS nanoparticles. Beilstein Journal of Nanotechnology, 2013, 4, 255-261.	1.5	11
28	Photoelectrochemical processes on TiO ₂ electrodes sensitized by lead selenide nanoparticles. Theoretical and Experimental Chemistry, 2012, 48, 33-37.	0.2	3
29	Impedance behaviour of anodic TiO ₂ films prepared by galvanostatic anodisation and powerful pulsed discharge in electrolyte. Electrochimica Acta, 2012, 76, 453-461.	2.6	21
30	Anodic Alumina Films Prepared by Powerful Pulsed Discharge Oxidation. Journal of Physical Chemistry C, 2011, 115, 18634-18639.	1.5	7
31	Electrodeposited Ni-Co alloy coatings: Structure, corrosion resistance and mechanical properties. Electrochimica Acta, 2010, 55, 2223-2231.	2.6	123
32	Enhancement of Active Corrosion Protection via Combination of Inhibitor-Loaded Nanocontainers. ACS Applied Materials & Interfaces, 2010, 2, 1528-1535.	4.0	302
33	Active protection coatings with layered double hydroxide nanocontainers of corrosion inhibitor. Corrosion Science, 2010, 52, 602-611.	3.0	456
34	Novel Inorganic Host Layered Double Hydroxides Intercalated with Guest Organic Inhibitors for Anticorrosion Applications. ACS Applied Materials & Interfaces, 2009, 1, 2353-2362.	4.0	277
35	Electrochemical probing of thiol-capped nanocrystals. Mikrochimica Acta, 2008, 160, 327-334.	2.5	26
36	Preparation and corrosion protective properties of nanostructured titania-containing hybrid sol-gel coatings on AA2024. Progress in Organic Coatings, 2008, 62, 226-235.	1.9	73

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37	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. <i>Progress in Organic Coatings</i> , 2007, 58, 127-135.	1.9	280
38	Behavior of (La,Sr)CoO ₃ - and La ₂ NiO ₄ -based ceramic anodes in alkaline media: compositional and microstructural factors. <i>Journal of Solid State Electrochemistry</i> , 2007, 12, 15-30.	1.2	4
39	ELECTROCHEMICAL STUDY OF PHOTOCHEMICALLY TREATED THIOL-CAPPED ZnSe(S) NANOCRYSTALS. , 2007, , .		0
40	Electroplating of Iron Films: Microstructural Effects of Alkaline Baths. <i>Materials Science Forum</i> , 2006, 514-516, 88-92.	0.3	1
41	Electrochemical Observation of the Photoinduced Formation of Alloyed ZnSe(S) Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19233-19237.	1.2	30
42	Semiconductor Nanocrystals Photosensitize C ₆₀ Crystals. <i>Nano Letters</i> , 2006, 6, 1559-1563.	4.5	71
43	Molecular scale organized poly(MDMO-p-phenylene vinylene)â€“heteropolyacid composites. <i>Synthetic Metals</i> , 2006, 156, 843-847.	2.1	1
44	Underpotential deposition of cadmium adatoms on Te and CdTe. <i>Electrochimica Acta</i> , 2006, 52, 996-1002.	2.6	4
45	Electrocatalytic Behavior of Perovskite-Related Cobaltites and Nickelates in Alkaline Media. <i>Materials Science Forum</i> , 2006, 514-516, 1391-1395.	0.3	0
46	Electrochemical oxidation of titanium by pulsed discharge in electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 299-310.	1.9	35
47	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. <i>Corrosion Science</i> , 2005, 47, 3368-3383.	3.0	324
48	Size-Dependent Electrochemical Behavior of Thiol-Capped CdTe Nanocrystals in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1094-1100.	1.2	211
49	TiO ₂ -In ₂ O ₃ photocatalysts: preparation, characterisations and activity for 2-chlorophenol degradation in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 162, 423-430.	2.0	119
50	Electroless gold plating from a hypophosphite-dicyanoaurate bath. <i>Surface and Coatings Technology</i> , 2004, 176, 327-336.	2.2	23
51	Quantum Dot Chemiluminescence. <i>Nano Letters</i> , 2004, 4, 693-698.	4.5	275
52	Electrochemical preparation of lead-doped amorphous Se films and underpotential deposition of lead onto these films. <i>Surface Science</i> , 2003, 532-535, 1092-1097.	0.8	13
53	Synthesis of surface-modified colloidal semiconductor nanocrystals and study of photoinduced charge separation and transport in nanocrystal-polymer composites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 237-241.	1.3	79
54	Optical properties and charge transport in nanocrystalline TiO ₂ â€“In ₂ O ₃ composite films. <i>Thin Solid Films</i> , 2002, 405, 35-41.	0.8	29

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55	Photoinduced and dark underpotential deposition of lead on selenium. <i>Journal of Electroanalytical Chemistry</i> , 2002, 518, 103-114.	1.9	47
56	Structural, Optical, and Photoelectrochemical Properties of Nanocrystalline TiO ₂ /In ₂ O ₃ Composite Solids and Films Prepared by Sol-Gel Method. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4816-4823.	1.2	128
57	The Structure and Properties of TiO ₂ -Cu(II)-EDTA Ternary Surface Complexes. <i>Journal of Colloid and Interface Science</i> , 2001, 239, 200-208.	5.0	14
58	CHEMICALLY GROWN II-VI SEMICONDUCTOR QUANTUM DOTS FOR OPTOELECTRONIC AND PHOTONIC APPLICATIONS. , 2001, , .		0
59	Characterization and photoelectrochemical properties of nanocrystalline In ₂ O ₃ film electrodes. <i>Electrochimica Acta</i> , 2000, 45, 1595-1605.	2.6	43
60	Correlation between surface properties and photocatalytic and photoelectrochemical activity of In ₂ O ₃ nanocrystalline films and powders. <i>Surface Science</i> , 2000, 454-456, 396-401.	0.8	55
61	Study of semiconductor/electrolyte interface using the Fourier transformation of photovoltage response to periodic laser pulses. <i>Surface Science</i> , 2000, 454-456, 1046-1051.	0.8	2
62	Structure and Electrochemical Properties of Species Formed as a Result of Cu(II) Ion Adsorption onto TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1308-1315.	1.2	41
63	Effect of electron and hole acceptors on the photoelectrochemical behaviour of nanocrystalline microporous TiO ₂ electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1998, 442, 99-105.	1.9	54
64	Electroluminescent method for determining hydrogen peroxide and peroxydisulphate ions in aqueous solution using TiO film electrodes. <i>Talanta</i> , 1996, 43, 1607-1613.	2.9	23
65	Photoelectrochemical determination of bandgap energy in surface layers formed on semiconductor electrodes. <i>Electrochimica Acta</i> , 1995, 40, 1761-1767.	2.6	4
66	An electroluminescence optical sensor system based on TiO ₂ film electrodes for continuous measurement of H ₂ O ₂ concentration in solution. <i>Sensors and Actuators B: Chemical</i> , 1994, 22, 97-100.	4.0	12
67	Photoelectrochemical determination of minority-carrier diffusion length and energy band gap in heavily doped semiconductors. II. Interband optical transitions in degenerate n-CdO. <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 447-451.	1.9	2
68	Photoluminescence and electroluminescence at the TiO ₂ /electrolyte interface. <i>Journal of Electroanalytical Chemistry</i> , 1992, 340, 73-97.	1.9	49
69	Photoelectrochemical properties of bismuth oxyhalide films. <i>Electrochimica Acta</i> , 1990, 35, 1941-1947.	2.6	81
70	Electrochemical formation of bismuth oxyhalide films in neutral halide solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 278, 227-247.	0.3	5
71	Hole diffusion transport and photocurrent generation in the degenerate n-CdO/electrolyte junction. <i>Solid State Communications</i> , 1990, 76, 65-68.	0.9	10
72	Photoelectrochemical behaviour of n-silicon photoanodes coated with chromium(III) oxide films and Cr ₂ O ₃ containing composite layers. <i>Solar Energy Materials and Solar Cells</i> , 1989, 18, 357-364.	0.4	5

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73	Photocurrent Generation and Optical Transitions on Degenerate Cadmium Oxide Photoanodes. <i>Physica Status Solidi A</i> , 1989, 111, 193-199.	1.7	11