

Aleksander V Mazanik

List of Publications by Year in descending order

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papers

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840585

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docs citations

49
times ranked

950
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#	ARTICLE	IF	CITATIONS
1	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. <i>ACS Applied Energy Materials</i> , 2018, 1, 799-806.	2.5	85
2	New Insight on Open-Structured Sodium Vanadium Oxide as High-Capacity and Long Life Cathode for Zn-Ion Storage: Structure, Electrochemistry, and First-Principles Calculation. <i>Advanced Energy Materials</i> , 2020, 10, 2001595.	10.2	54
3	Determination of solar cell parameters from its current-voltage and spectral characteristics. <i>Solar Energy Materials and Solar Cells</i> , 2005, 87, 457-465.	3.0	44
4	Silver nanostructures formation in porous Si/SiO ₂ matrix. <i>Journal of Crystal Growth</i> , 2014, 400, 21-26.	0.7	32
5	Monoclinic bismuth vanadate band gap determination by photoelectrochemical spectroscopy. <i>Materials Chemistry and Physics</i> , 2017, 201, 189-193.	2.0	31
6	Giant Incident Photon-to-Current Conversion with Photoconductivity Gain on Nanostructured Bismuth Oxysulfide Photoelectrodes under Visible-Light Illumination. <i>Advanced Materials</i> , 2017, 29, 1702387.	11.1	29
7	Eu modified Cu ₂ O thin films: Significant enhancement in efficiency of photoelectrochemical processes through suppression of charge carrier recombination. <i>Chemical Engineering Journal</i> , 2018, 335, 676-684.	6.6	28
8	Influence of wide band gap oxide substrates on the photoelectrochemical properties and structural disorder of CdS nanoparticles grown by the successive ionic layer adsorption and reaction (SILAR) method. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2252-2262.	1.5	17
9	Photoluminescence kinetics for monitoring photoinduced processes in perovskite solar cells. <i>Solar Energy</i> , 2020, 195, 114-120.	2.9	17
10	Bismuth oxysulfide film electrodes with giant incident photon-to-current conversion efficiency: the dynamics of properties with deposition time. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20340-20346.	1.3	15
11	Carrier transport in porous-Si/Ni/c-Si nanostructures. <i>Journal of Alloys and Compounds</i> , 2016, 657, 21-26.	2.8	13
12	Photoelectrochemical and Raman characterization of In ₂ O ₃ mesoporous films sensitized by CdS nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 255-261.	1.5	11
13	Impurities and defects in multicrystalline silicon for solar cells: low-temperature photoluminescence investigations. <i>Solar Energy Materials and Solar Cells</i> , 2002, 72, 503-508.	3.0	10
14	Optical and photoelectrical properties of Cd _x Se _{1-x} films produced by screen-printing technology. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1694-1699.	0.7	8
15	Effect of the hydrogen and argon ion-beam treatments on the structural and electrical properties of Cz Si wafers: Comparative study. <i>Vacuum</i> , 2009, 83, S99-S102.	1.6	8
16	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
17	Underpotential Deposition of Cadmium on Colloidal CdSe Quantum Dots: Effect of Particle Size and Surface Ligands. <i>Journal of Physical Chemistry C</i> , 2019, 123, 931-939.	1.5	8
18	Room-temperature photoluminescence in quasi-2D TlGaSe ₂ and TlInS ₂ semiconductors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 639-642.	1.2	7

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19	Copper-silicon dioxide nanocomposites: Structure and electron transport. <i>Journal of Alloys and Compounds</i> , 2017, 726, 417-423.	2.8	7
20	Carrier dynamics in highly excited TlInS_2 : evidence of 2D electron-hole charge separation at parallel layers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2102-2114.	1.3	7
21	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
22	Transformation of Electrical Activity of Extended Defects in Silicon Polycrystals under Annealing and Hydrogen Plasma Treatment. <i>Physica Status Solidi A</i> , 1999, 171, 353-363.	1.7	6
23	Electrical activity of grain boundaries in silicon bicrystals and its modification by hydrogen plasma treatment. <i>Solar Energy Materials and Solar Cells</i> , 2002, 72, 589-595.	3.0	6
24	Bismuth Oxysulfide Photoelectrodes with Giant Incident Photon-to-Current Conversion Efficiency: Chemical Stability in Aqueous Solutions. <i>ChemElectroChem</i> , 2019, 6, 2474-2481.	1.7	5
25	Mechanisms of Carrier Transport in $\text{Cu}_x(\text{SiO}_2)_{1-x}$ Nanocomposites Manufactured by Ion-Beam Sputtering with Ar Ions. <i>Acta Physica Polonica A</i> , 2015, 128, 883-886.	0.2	5
26	Preparation, structure, and magnetic properties of cobalt nanoparticles in carbon fibers. <i>Journal of Materials Research</i> , 2001, 16, 2832-2835.	1.2	4
27	Investigation of defects in $\text{Cu}(\text{In,Ga})(\text{S,Se})_2$ films using the photocurrent decay technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 371-374.	1.1	4
28	Formation of insulating oxygen-containing layer on the silicon wafer surface using low-temperature hydrogenation. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 273-276.	1.1	4
29	Effective p-type photocurrent sensitization of n- Bi_2O_3 with p- CuBi_2O_4 and p- CuO : Z-scheme photoelectrochemical system. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 401-409.	1.2	4
30	Magnetoresistance in n-Si/ SiO_2 /Ni Nanostructures Manufactured by Swift Heavy Ion-Induced Modification Technology. <i>Acta Physica Polonica A</i> , 2011, 120, 133-135.	0.2	4
31	Impact of intrinsic defects on excitation dependent carrier lifetime in thick 4H-SiC studied by complementing microwave photoconductivity, free-carrier absorption and time-resolved photoluminescence techniques. <i>Journal of Luminescence</i> , 2019, 212, 92-98.	1.5	3
32	Carrier recombination and diffusion in high-purity diamond after electron irradiation and annealing. <i>Applied Physics Letters</i> , 2020, 117, 242103.	1.5	3
33	Electrical characterization of interfaces in unipolar directly bonded silicon wafers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 91-92, 384-388.	1.7	2
34	Influence of low-energy ion-beam treatment by hydrogen on electrical activity of grain boundaries in polycrystalline silicon. <i>Vacuum</i> , 2005, 78, 269-272.	1.6	2
35	Influence of Annealing on the Electrical Properties of Cz-Si Wafers Previously Subjected to the Hydrogen Ion-Beam Treatment. <i>Acta Physica Polonica A</i> , 2011, 120, 108-110.	0.2	2
36	Title is missing!. <i>Journal of Materials Science</i> , 2001, 9, 169-173.	1.2	1

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37	Electrical properties of Si/SiO ₂ /Si structures produced by direct bonding of pre-oxidized silicon wafers. <i>Microelectronic Engineering</i> , 2003, 66, 522-529.	1.1	1
38	Simulation of oxygen- or carbon containing complexes at silicon-silicon interface in cluster approximation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1886-1891.	0.8	1
39	Photoresponse of hydrogen plasma treated and electron irradiated silicon wafers. <i>Vacuum</i> , 2007, 81, 1332-1336.	1.6	1
40	Carrier recombination parameters in diamond after surface boron implantation and annealing. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	1
41	Anisotropic Magnetoresistance of Ni Nanorod Arrays in Porous SiO ₂ /Si Templates Manufactured by Swift Heavy Ion-Induced Modification. <i>Acta Physica Polonica A</i> , 2015, 128, 894-897.	0.2	1
42	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
43	Quantum chemical modelling of Si sub-surface amorphisation due to incorporation of H atoms and its stabilisation by O atoms. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, NA-NA.	0.8	0
44	Structure of the near-surface layer of Cz Si wafers subjected to low-temperature low-energy ion-beam treatment. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 739-742.	0.8	0
45	Formation and optical properties of hybrid organic-inorganic MAPbI ₃ perovskite films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 498, 012012.	0.3	0
46	Electrochemistry of bismuth interlayers in (Bi ₂) _m (Bi ₂ Te ₃) _n superlattice. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2807-2819.	1.2	0
47	Method for studying the photostability of solar cells based on organic-inorganic perovskites using a confocal spectrometer. <i>Journal of the Belarusian State University Physics</i> , 2022, , 88-97.	0.1	0