

# Aleksander V Mazanik

## List of Publications by Year in descending order

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47  
papers

508  
citations

840585

11  
h-index

713332

21  
g-index

49  
all docs

49  
docs citations

49  
times ranked

950  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Electrochemistry of bismuth interlayers in (Bi <sub>2</sub> ) <sub>m</sub> (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> superlattice. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2807-2819.	1.2	0
3	Photoluminescence kinetics for monitoring photoinduced processes in perovskite solar cells. <i>Solar Energy</i> , 2020, 195, 114-120.	2.9	17
4	New Insight on Openâ€‘Structured Sodium Vanadium Oxide as Highâ€‘Capacity and Long Life Cathode for Znâ€‘Ion Storage: Structure, Electrochemistry, and Firstâ€‘Principles Calculation. <i>Advanced Energy Materials</i> , 2020, 10, 2001595.	10.2	54
5	Carrier recombination and diffusion in high-purity diamond after electron irradiation and annealing. <i>Applied Physics Letters</i> , 2020, 117, 242103.	1.5	3
6	Carrier recombination parameters in diamond after surface boron implantation and annealing. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	1
7	Effective p-type photocurrent sensitization of n-Bi <sub>2</sub> O <sub>3</sub> with p-CuBi <sub>2</sub> O <sub>4</sub> and p-CuO: Z-scheme photoelectrochemical system. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 401-409.	1.2	4
8	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
9	Carrier dynamics in highly excited TlInS <sub>2</sub> : evidence of 2D electronâ€‘hole charge separation at parallel layers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2102-2114.	1.3	7
10	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
11	Formation and optical properties of hybrid organic-inorganic MAPbI <sub>3</sub> perovskite films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 498, 012012.	0.3	0
12	Bismuth Oxysulfide Photoelectrodes with Giant Incident Photonâ€‘Current Conversion Efficiency: Chemical Stability in Aqueous Solutions. <i>ChemElectroChem</i> , 2019, 6, 2474-2481.	1.7	5
13	Effect of fluoride-mediated transformations on electrocatalytic performance of thermally treated TiO <sub>2</sub> nanotubular layers. <i>Journal of Fluorine Chemistry</i> , 2019, 221, 34-41.	0.9	7
14	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
15	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
16	Eu modified Cu <sub>2</sub> 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
17	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
18	Giant Incident Photonâ€‘Current Conversion with Photoconductivity Gain on Nanostructured Bismuth Oxysulfide Photoelectrodes under Visibleâ€‘Light Illumination. <i>Advanced Materials</i> , 2017, 29, 1702387.	11.1	29

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19	Monoclinic bismuth vanadate band gap determination by photoelectrochemical spectroscopy. <i>Materials Chemistry and Physics</i> , 2017, 201, 189-193.	2.0	31
20	Copper-silicon dioxide nanocomposites: Structure and electron transport. <i>Journal of Alloys and Compounds</i> , 2017, 726, 417-423.	2.8	7
21	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
22	Carrier transport in porous-Si/Ni/c-Si nanostructures. <i>Journal of Alloys and Compounds</i> , 2016, 657, 21-26.	2.8	13
23	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
24	Mechanisms of Carrier Transport in $Cu_x(SiO_2)_{1-x}$ Nanocomposites Manufactured by Ion-Beam Sputtering with Ar Ions. <i>Acta Physica Polonica A</i> , 2015, 128, 883-886.	0.2	5
25	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
26	Silver nanostructures formation in porous $Si/SiO_2$ matrix. <i>Journal of Crystal Growth</i> , 2014, 400, 21-26.	0.7	32
27	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
28	Photoelectrochemical and Raman characterization of $In_2O_3$ mesoporous films sensitized by CdS nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 255-261.	1.5	11
29	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
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	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
32	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
33	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
34	Investigation of defects in $Cu(In,Ga)(S,Se)_2$ films using the photocurrent decay technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 371-374.	1.1	4
35	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
36	Photoresponse of hydrogen plasma treated and electron irradiated silicon wafers. <i>Vacuum</i> , 2007, 81, 1332-1336.	1.6	1

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37	Optical and photoelectrical properties of CdSx Se1-x films produced by screen-printing technology. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1694-1699.	0.7	8
38	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
39	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
40	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
41	Electrical properties of Si/SiO2/Si structures produced by direct bonding of pre-oxidized silicon wafers. <i>Microelectronic Engineering</i> , 2003, 66, 522-529.	1.1	1
42	Electrical characterization of interfaces in untype 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
43	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
44	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
45	Title is missing!. <i>Journal of Materials Science</i> , 2001, 9, 169-173.	1.2	1
46	Preparation, structure, and magnetic properties of cobalt nanoparticles in carbon fibers. <i>Journal of Materials Research</i> , 2001, 16, 2832-2835.	1.2	4
47	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