

Eugene A Streltsov

List of Publications by Year in descending order

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60
papers

1,089
citations

394286

19
h-index

454834

30
g-index

61
all docs

61
docs citations

61
times ranked

1247
citing authors

#	ARTICLE	IF	CITATIONS
1	Rechargeable zinc-ion batteries with manganese dioxide cathode: How critical is choice of manganese dioxide polymorphs in aqueous solutions?. Journal of Power Sources, 2022, 523, 231023.	4.0	14
2	The optimized electrochemical deposition of bismuth-bismuth telluride layered crystal structures. IOP Conference Series: Materials Science and Engineering, 2021, 1140, 012016.	0.3	1
3	Electrophoretically-Deposited CdSe Quantum Dot Films for Electrochromic Displays and Smart Windows. ACS Applied Nano Materials, 2021, 4, 6974-6984.	2.4	3
4	Electrochemistry of bismuth interlayers in (Bi ₂) _m (Bi ₂ Te ₃) _n superlattice. Journal of Solid State Electrochemistry, 2021, 25, 2807-2819.	1.2	0
5	Pulse electrodeposited bismuth-tellurium superlattices with controllable bismuth content. Journal of Power Sources, 2020, 450, 227605.	4.0	7
6	New Insight on Open-Structured Sodium Vanadium Oxide as High-Capacity and Long Life Cathode for Zn ²⁺ Ion Storage: Structure, Electrochemistry, and First-Principles Calculation. Advanced Energy Materials, 2020, 10, 2001595.	10.2	54
7	Effective p-type photocurrent sensitization of n-Bi ₂ O ₃ with p-CuBi ₂ O ₄ and p-CuO: Z-scheme photoelectrochemical system. Journal of Solid State Electrochemistry, 2020, 24, 401-409.	1.2	4
8	Photocurrent Switching on Electrophoretic CdSe QD Electrodes with Different Ligands. International Journal of Nanoscience, 2019, 18, 1940053.	0.4	2
9	Hollandite-Type VO _{1.75} (OH) _{0.5} : Effective Sodium Storage for High-Performance Sodium-Ion Batteries. Advanced Energy Materials, 2019, 9, 1900603.	10.2	16
10	Determination of the Electrochemically Active Surface Area of PbSe and Bi ₂ Te ₃ Films Using the Deposition of Lead Atoms. Theoretical and Experimental Chemistry, 2019, 55, 64-71.	0.2	2
11	Bismuth Oxysulfide Photoelectrodes with Giant Incident Photon-to-Current Conversion Efficiency: Chemical Stability in Aqueous Solutions. ChemElectroChem, 2019, 6, 2474-2481.	1.7	5
12	Underpotential Deposition of Cadmium on Colloidal CdSe Quantum Dots: Effect of Particle Size and Surface Ligands. Journal of Physical Chemistry C, 2019, 123, 931-939.	1.5	8
13	Eu modified Cu ₂ O thin films: Significant enhancement in efficiency of photoelectrochemical processes through suppression of charge carrier recombination. Chemical Engineering Journal, 2018, 335, 676-684.	6.6	28
14	Crystal stacking: A route to control photoelectrochemical behavior of BiOBr films. Electrochimica Acta, 2018, 290, 63-71.	2.6	5
15	Open-Structured Vanadium Dioxide as an Intercalation Host for Zn Ions: Investigation by First-Principles Calculation and Experiments. Chemistry of Materials, 2018, 30, 6777-6787.	3.2	111
16	Bismuth oxysulfide film electrodes with giant incident photon-to-current conversion efficiency: the dynamics of properties with deposition time. Physical Chemistry Chemical Physics, 2018, 20, 20340-20346.	1.3	15
17	Underpotential deposition of lead onto Bi ₂ Te ₃ /Te heterostructures. Electrochemistry Communications, 2018, 94, 23-26.	2.3	5
18	Platinum electrochemical corrosion and protection in concentrated alkali metal chloride solutions investigated by potentiodynamic nanogravimetry. Russian Journal of Electrochemistry, 2017, 53, 1-7.	0.3	3

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19	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
20	Monoclinic bismuth vanadate band gap determination by photoelectrochemical spectroscopy. <i>Materials Chemistry and Physics</i> , 2017, 201, 189-193.	2.0	31
21	Spectral sensitization of TiO ₂ with electrodeposited PbSe: improvement of photocurrent stability and light conversion efficiency. <i>Electrochimica Acta</i> , 2017, 249, 369-376.	2.6	7
22	Size-dependent photocurrent switching in chemical bath deposited CdSe quantum dot films. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 905-913.	1.2	9
23	Evaluation of electroactive surface area of CdSe nanoparticles on wide bandgap oxides (TiO ₂ , ZnO) by cadmium underpotential deposition. <i>Electrochemistry Communications</i> , 2016, 72, 176-180.	2.3	10
24	Cadmium underpotential deposition on CdSe and CdS quantum dot films: size dependent underpotential shift. <i>Electrochimica Acta</i> , 2016, 220, 493-499.	2.6	9
25	Photocurrent switching effect on platelet-like BiOI electrodes: influence of redox system, light wavelength and thermal treatment. <i>Electrochimica Acta</i> , 2016, 190, 612-619.	2.6	27
26	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
27	Magnetic Anisotropy in Bicomponent Self-Assembled Ni and Ni-Pd Nanowires Studied by Magnetic Resonance Spectroscopy. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-7.	1.2	11
28	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
29	Underpotential shift in electrodeposition of metal adlayer on tellurium and the free energy of metal telluride formation. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2511-2516.	1.2	9
30	SnO ₂ /reduced graphene oxide composite films for electrochemical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 202, 61-67.	1.7	17
31	Photoelectrochemical and Raman characterization of nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. <i>Thin Solid Films</i> , 2014, 562, 56-62.	0.8	12
32	Electrochemical impedance of platinum in concentrated chloride solutions under potentiodynamic anodic polarization: Effect of alkali metal cations. <i>Electrochimica Acta</i> , 2014, 122, 218-223.	2.6	13
33	Photoemission electron microscopy of arrays of submicron nickel rods in a silicon dioxide matrix. <i>Physics of the Solid State</i> , 2014, 56, 1916-1921.	0.2	5
34	Effect of the Method of Preparation of ZnO/CdS and TiO ₂ /CdS Film Nanoheterostructures on Their Photoelectrochemical Properties. <i>Theoretical and Experimental Chemistry</i> , 2013, 49, 165-171.	0.2	9
35	Gelatin-templated mesoporous titania for photocatalytic air treatment and application in metal chalcogenide nanoparticle-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 621-625.	1.6	12
36	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

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37	Photoinduced selective copper electrodeposition on p-Si(111). <i>Electrochemistry Communications</i> , 2012, 17, 38-40.	2.3	2
38	Electrochemical deposition of lead and tellurium into barrierless nanoporous anodic aluminium oxide. <i>Electrochimica Acta</i> , 2012, 77, 65-70.	2.6	14
39	Electrical, photoelectrical, and photoelectrochemical properties of electrodeposited CdTe films subjected to high-energy irradiation. <i>Thin Solid Films</i> , 2011, 519, 7149-7152.	0.8	6
40	Cadmium cathodic deposition on polycrystalline p-selenium: Dark and photoelectrochemical processes. <i>Electrochimica Acta</i> , 2011, 56, 3562-3566.	2.6	8
41	Electrochemical deposition of Te and electroless deposition of Se nanoparticles in etched tracks of Au ⁺ ions in SiO ₂ layer on n-Si(100) wafers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 147, 271-275.	1.7	6
42	Multiparametric characterisation of metal-chalcogen atomic multilayer assembly by potentiodynamic electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2008, 53, 3879-3888.	2.6	24
43	Electrodeposition of PbSe onto n-Si(100) wafers. <i>Electrochimica Acta</i> , 2008, 53, 5051-5057.	2.6	16
44	Electrochemical deposition of PbTe onto n-Si(100) wafers. <i>Electrochemistry Communications</i> , 2007, 9, 599-604.	2.3	29
45	Electrodeposition of Te onto monocrystalline n- and p-Si(100) wafers. <i>Electrochimica Acta</i> , 2007, 52, 5213-5218.	2.6	22
46	Electrochemical deposition of Ni and Cu onto monocrystalline n-Si(100) wafers and into nanopores in Si/SiO ₂ template. <i>Journal of Materials Science</i> , 2007, 42, 9163-9169.	1.7	38
47	Multiparametric electrochemical characterisation of Te-Cu-Pb atomic three-layer structure deposition on polycrystalline gold. <i>Electrochemistry Communications</i> , 2006, 8, 921-926.	2.3	22
48	Electrochemical deposition of nanocrystalline PbSe layers onto p-Si (100) wafers. <i>Thin Solid Films</i> , 2005, 487, 49-53.	0.8	16
49	Electrochemical deposition of PbSe and CdTe nanoparticles onto p-Si(100) wafers and into nanopores in SiO ₂ /Si(100) structure. <i>Thin Solid Films</i> , 2005, 490, 154-160.	0.8	35
50	Potentiodynamic electrochemical impedance spectroscopy of lead upd on polycrystalline gold and on selenium atomic underlayer. <i>Electrochemistry Communications</i> , 2005, 7, 631-636.	2.3	36
51	Potentiodynamic electrochemical impedance spectroscopy: lead underpotential deposition on tellurium. <i>Journal of Electroanalytical Chemistry</i> , 2004, 565, 227-234.	1.9	42
52	Photoelectrochemical formation of indium and cadmium selenide nanoparticles through Se electrode precursor. <i>Electrochemistry Communications</i> , 2004, 6, 1051-1056.	2.3	17
53	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
54	Photoinduced and dark underpotential deposition of lead on selenium. <i>Journal of Electroanalytical Chemistry</i> , 2002, 518, 103-114.	1.9	47

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55	Bismuth underpotential deposition on tellurium. <i>Electrochemistry Communications</i> , 2000, 2, 822-826.	2.3	12
56	Effect of Cd(II) on electrodeposition of textured PbSe. <i>Electrochimica Acta</i> , 1999, 44, 2645-2652.	2.6	31
57	Electrochemical deposition of PbSe films. <i>Electrochimica Acta</i> , 1998, 43, 869-873.	2.6	67
58	Electrochemical deposition of PbSe $_{1-x}$ Te $_x$ solid solutions. <i>Electrochimica Acta</i> , 1998, 44, 407-413.	2.6	33
59	The formation and properties of heterostructures based on titanium dioxide films volume-doped with palladium particles. <i>Materials Chemistry and Physics</i> , 1990, 25, 315-322.	2.0	1
60	Photocurrent Generation and Optical Transitions on Degenerate Cadmium Oxide Photoanodes. <i>Physica Status Solidi A</i> , 1989, 111, 193-199.	1.7	11