

Jacek J Jasieniak

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97
papers

5,789
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36
h-index

75
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107
ext. papers

6,461
ext. citations

10.8
avg, IF

5.93
L-index

#	Paper	IF	Citations
97	Size-dependent valence and conduction band-edge energies of semiconductor nanocrystals. <i>ACS Nano</i> , 2011 , 5, 5888-902	16.7	508
96	Re-examination of the Size-Dependent Absorption Properties of CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19468-19474	3.8	445
95	From Cd-rich to se-rich--the manipulation of CdSe nanocrystal surface stoichiometry. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2841-8	16.4	311
94	Ultra-thin high efficiency semitransparent perovskite solar cells. <i>Nano Energy</i> , 2015 , 13, 249-257	17.1	255
93	The Heat-Up Synthesis of Colloidal Nanocrystals. <i>Chemistry of Materials</i> , 2015 , 27, 2246-2285	9.6	250
92	A Solution-Processed MoOx Anode Interlayer for Use within Organic Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2012 , 22, 2594-2605	15.6	213
91	Phosphine-free synthesis of CdSe nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20665-8	3.4	208
90	A new method to position and functionalize metal-organic framework crystals. <i>Nature Communications</i> , 2011 , 2, 237	17.4	197
89	Stabilizing the cubic perovskite phase of CsPbI nanocrystals by using an alkyl phosphinic acid. <i>Chemical Communications</i> , 2016 , 53, 232-235	5.8	194
88	Solution-processed sintered nanocrystal solar cells via layer-by-layer assembly. <i>Nano Letters</i> , 2011 , 11, 2856-64	11.5	149
87	Mapping the optical properties of CdSe/CdS heterostructure nanocrystals: the effects of core size and shell thickness. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14299-309	16.4	142
86	Flexible, Printable Soft-X-Ray Detectors Based on All-Inorganic Perovskite Quantum Dots. <i>Advanced Materials</i> , 2019 , 31, e1901644	24	141
85	Photoinduced charge generation in a molecular bulk heterojunction material. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19828-38	16.4	131
84	Highly luminescent metal-organic frameworks through quantum dot doping. <i>Small</i> , 2012 , 8, 80-8	11	119
83	Layer-by-layer assembly of sintered CdSe(x)Te1-x nanocrystal solar cells. <i>ACS Nano</i> , 2012 , 6, 5995-6004	16.7	114
82	Solution-processed nanocrystal quantum dot tandem solar cells. <i>Advanced Materials</i> , 2011 , 23, 3144-8	24	112
81	Review of the Synthetic Chemistry Involved in the Production of Core/Shell Semiconductor Nanocrystals. <i>Australian Journal of Chemistry</i> , 2007 , 60, 457	1.2	106

80	Blinking and surface chemistry of single CdSe nanocrystals. <i>Small</i> , 2006 , 2, 204-8	11	100
79	Cu _{1-x} SnS(4x)Se(4(1-x)) solar cells from polar nanocrystal inks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5237-40	16.4	96
78	A hyperbranched conjugated polymer as the cathode interlayer for high-performance polymer solar cells. <i>Advanced Materials</i> , 2013 , 25, 6889-94	24	95
77	Non-injection synthesis of doped zinc oxide plasmonic nanocrystals. <i>ACS Nano</i> , 2014 , 8, 9154-63	16.7	94
76	High Activity Phosphine-Free Selenium Precursor Solution for Semiconductor Nanocrystal Growth. <i>Chemistry of Materials</i> , 2010 , 22, 4135-4143	9.6	86
75	Highly Efficient Amplified Stimulated Emission from CdSe-CdS-ZnS Quantum Dot Doped Waveguides with Two-Photon Infrared Optical Pumping. <i>Advanced Materials</i> , 2008 , 20, 69-73	24	82
74	Luminescence and Amplified Stimulated Emission in CdSe/ZnS-Nanocrystal-Doped TiO ₂ and ZrO ₂ Waveguides. <i>Advanced Functional Materials</i> , 2007 , 17, 1654-1662	15.6	74
73	Soft-Lithographed Up-Converted Distributed Feedback Visible Lasers Based on CdSe/CdZnS/ZnS Quantum Dots. <i>Advanced Functional Materials</i> , 2012 , 22, 337-344	15.6	71
72	Characterization of a Porphyrin-Containing Dye-Sensitized Solar Cell. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12962-12971	3.4	64
71	Inverted perovskite solar cells with high fill-factors featuring chemical bath deposited mesoporous NiO hole transporting layers. <i>Nano Energy</i> , 2018 , 49, 163-171	17.1	62
70	Complete Quenching of CdSe Nanocrystal Photoluminescence by Single Dye Molecules. <i>Advanced Materials</i> , 2008 , 20, 4274-4280	24	61
69	Inverted semi-transparent organic solar cells with spray coated, surfactant free polymer top-electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 118-123	6.4	55
68	Identification of high-temperature exciton states and their phase-dependent trapping behaviour in lead halide perovskites. <i>Energy and Environmental Science</i> , 2018 , 11, 1460-1469	35.4	51
67	In Situ Formation of Reactive Sulfide Precursors in the One-Pot, Multigram Synthesis of Cu ₂ ZnSnS ₄ Nanocrystals. <i>Crystal Growth and Design</i> , 2013 , 13, 1712-1720	3.5	51
66	Photonic Sintering of Copper through the Controlled Reduction of Printed CuO Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25473-8	9.5	45
65	Investigation into the heterostructure interface of CdSe-based core-shell quantum dots using surface-enhanced Raman spectroscopy. <i>ACS Nano</i> , 2013 , 7, 6649-57	16.7	44
64	Indium tin oxide as a semiconductor material in efficient p-type dye-sensitized solar cells. <i>NPG Asia Materials</i> , 2016 , 8, e305-e305	10.3	43
63	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. <i>Advanced Functional Materials</i> , 2008 , 18, 3772-3779	15.6	40

62	Binding and Packing in Two-Component Colloidal Quantum Dot Ligand Shells: Linear versus Branched Carboxylates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3456-3464	16.4	39
61	Cu ₂ ZnGeS ₄ Nanocrystals from Air-Stable Precursors for Sintered Thin Film Alloys. <i>Chemistry of Materials</i> , 2014 , 26, 5482-5491	9.6	36
60	Non-injection synthesis of Cu ₂ ZnSnS ₄ nanocrystals using a binary precursor and ligand approach. <i>RSC Advances</i> , 2013 , 3, 1017-1020	3.7	34
59	Engineering of Semiconductor Nanocrystals for Light Emitting Applications. <i>Materials</i> , 2016 , 9,	3.5	34
58	Ionization potential and electron attenuation length of titanium dioxide deposited by atomic layer deposition determined by photoelectron spectroscopy in air. <i>Applied Surface Science</i> , 2017 , 422, 504-508	6.7	33
57	Linking Vertical Bulk-Heterojunction Composition and Transient Photocurrent Dynamics in Organic Solar Cells with Solution-Processed MoO _x Contact Layers. <i>Advanced Energy Materials</i> , 2014 , 4, 1301290	21.8	33
56	Role of Core/Shell Interfaces on Exciton Recombination in CdSe/Cd _x Zn _{1-x} S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24117-24126	3.8	33
55	Insights into π -conjugated small molecule neat films and blends as determined through photoconductivity. <i>ACS Nano</i> , 2012 , 6, 8735-45	16.7	31
54	Three-Pulse Photon Echo Peak Shift Measurements of Capped CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 82-88	3.8	27
53	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5954-5961	7.1	26
52	Plasmonic Ge-doped ZnO nanocrystals. <i>Chemical Communications</i> , 2015 , 51, 12369-72	5.8	26
51	Au nanoparticle monolayers covered with sol-gel oxide thin films: optical and morphological study. <i>Langmuir</i> , 2011 , 27, 13739-47	4	26
50	Synthetic Evolution of Colloidal Metal Halide Perovskite Nanocrystals. <i>Langmuir</i> , 2019 , 35, 11609-11628	4	23
49	Semi-transparent perovskite solar cells with a cross-linked hole transport layer. <i>Nano Energy</i> , 2020 , 71, 104635	17.1	23
48	Highly Luminescent and Temperature Stable Quantum Dot Thin Films Based on a ZnS Composite. <i>Chemistry of Materials</i> , 2012 , 24, 2117-2126	9.6	23
47	Benzothiadiazole-Containing Pendant Polymers Prepared by RAFT and Their Electro-Optical Properties. <i>Macromolecules</i> , 2010 , 43, 7101-7110	5.5	23
46	Flash-Assisted Processing of Highly Conductive Zinc Oxide Electrodes from Water. <i>Advanced Functional Materials</i> , 2015 , 25, 7263-7271	15.6	22
45	Mimicry of sputtered i-ZnO thin films using chemical bath deposition for solution-processed solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22519-26	9.5	21

44	Interfacial Characteristics of Efficient Bulk Heterojunction Solar Cells Fabricated on MoO _x Anode Interlayers. <i>Advanced Materials</i> , 2016 , 28, 3944-51	24	20
43	Mechanistic Insights in Seeded Growth Synthesis of Colloidal Core/Shell Quantum Dots. <i>Chemistry of Materials</i> , 2017 , 29, 4719-4727	9.6	20
42	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. <i>Nanoscale</i> , 2019 , 11, 8020-8026	7.7	20
41	Improved lifetimes of organic solar cells with solution-processed molybdenum oxide anode-modifying layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 989-996	6.8	20
40	Tunable 3D arrays of quantum dots: synthesis and luminescence properties. <i>Small</i> , 2006 , 2, 199-203	11	20
39	Understanding the chemical origin of improved thin-film device performance from photodoped ZnO nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 124, 211-216	6.4	19
38	Examining the role of ultra-thin atomic layer deposited metal oxide barrier layers on CdTe/ITO interface stability during the fabrication of solution processed nanocrystalline solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 125, 164-169	6.4	18
37	Hybrid 1-D dielectric microcavity: Fabrication and spectroscopic assessment of glass-based sub-wavelength structures. <i>Ceramics International</i> , 2015 , 41, 7429-7433	5.1	17
36	Scalable synthesis of colloidal CsPbBr ₃ perovskite nanocrystals with high reaction yields through solvent and ligand engineering. <i>Nanoscale</i> , 2020 , 12, 4859-4867	7.7	17
35	Solution-processed CdS thin films from a single-source precursor. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3247-3253	7.1	16
34	Solution-processing of ultra-thin CdTe/ZnO nanocrystal solar cells. <i>Thin Solid Films</i> , 2014 , 558, 365-373	2.2	16
33	Facile production of up-converted quantum dot lasers. <i>Nanoscale</i> , 2011 , 3, 4109-13	7.7	16
32	Enhancement of 3D/2D Perovskite Solar Cells Using an F4TCNQ Molecular Additive. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8205-8215	6.1	16
31	Enhanced photovoltaic performance of nanocrystalline CdTe/ZnO solar cells using sol-gel ZnO and positive bias treatment. <i>Journal of Applied Physics</i> , 2014 , 115, 184501	2.5	14
30	Prospects of Z-Scheme Photocatalytic Systems Based on Metal Halide Perovskites. <i>ACS Nano</i> , 2021 , 15, 7860-7878	16.7	14
29	Aqueous Synthesis of High-Quality CuZnSnS ₄ Nanocrystals and Their Thermal Annealing Characteristics. <i>Langmuir</i> , 2018 , 34, 1655-1665	4	13
28	Perovskite X-Ray Detectors: Flexible, Printable Soft-X-Ray Detectors Based on All-Inorganic Perovskite Quantum Dots (Adv. Mater. 30/2019). <i>Advanced Materials</i> , 2019 , 31, 1970214	24	12
27	CdSe Core/Shell Nanoparticles as Active Materials for Up-Converted Emission. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3840-3846	3.8	12

26	Solution-Processed CuSbS ₂ Thin Films and Superstrate Solar Cells with CdS/In ₂ S ₃ Buffer Layers. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7885-7895	6.1	12
25	Aqueous Synthesis of Cu ₂ ZnSnSe ₄ Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 2138-2150	9.6	11
24	Exciton Character and High-Performance Stimulated Emission of Hybrid Lead Bromide Perovskite Polycrystalline Film. <i>Advanced Optical Materials</i> , 2020 , 8, 1902026	8.1	11
23	Electrically Stable, Solution-Processed Amorphous Oxide IZO Thin-Film Transistors Through a UV-Ozone Assisted Sol-Gel Approach. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1093-1100	2.9	11
22	Plastic Microgroove Solar Cells Using CuInSe ₂ Nanocrystals. <i>ACS Energy Letters</i> , 2016 , 1, 1021-1027	20.1	10
21	Facile purification of CsPbX (X = Cl, Br, I) perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019 , 151, 121105	3.9	9
20	Neural Electrodes Based on 3D Organic Electroactive Microfibers. <i>Advanced Functional Materials</i> , 2018 , 28, 1700927	15.6	9
19	Facile Deposition of Mesoporous PbI ₂ through DMF:DMSO Solvent Engineering for Sequentially Deposited Metal Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3358-3368	6.1	8
18	Ion Agglomeration and Transport in MgCl-Based Electrolytes for Rechargeable Magnesium Batteries. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7856-7862	6.4	8
17	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 14546-14648	16.7	8
16	A hybrid organic/inorganic three-dimensional cathode interfacial material for organic solar cells. <i>RSC Advances</i> , 2017 , 7, 28513-28519	3.7	7
15	Ultrasonic spray deposition of TiO ₂ electron transport layers for reproducible and high efficiency hybrid perovskite solar cells. <i>Solar Energy</i> , 2019 , 188, 697-705	6.8	7
14	All-optical integrated micro logic gate. <i>Microelectronics Journal</i> , 2011 , 42, 472-476	1.8	5
13	Molecular mechanisms of thermal instability in hybrid perovskite light absorbers for photovoltaic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17765-17779	13	5
12	Microfluidic Processing of Ligand-Engineered NiO Nanoparticles for Low-Temperature Hole-Transporting Layers in Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100342	7.1	5
11	The formation mechanism of Janus nanostructures in one-pot reactions: the case of Ag ₂ Ag ₈ GeS ₆ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7060-7070	13	5
10	Synthesis of CsPbBr ₃ perovskite nanocrystals with acoustically actuated millisecond mixing. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 313-321	7.1	5
9	Phase-Control of Single-Crystalline Inorganic Halide Perovskites via Molecular Coordination Engineering. <i>Advanced Functional Materials</i> , 2109442	15.6	5

8	Nanocrystals, Layer-by-Layer Assembly, and Photovoltaic Devices 2015 , 357-394		3
7	Soft X-ray Detectors Based on SnS Nanosheets for the Water Window Region. <i>Advanced Functional Materials</i> , 2105038	15.6	3
6	Glass-based 1-D dielectric microcavities. <i>Optical Materials</i> , 2016 , 61, 11-14	3.3	3
5	High-Performance and Stable Semi-Transparent Perovskite Solar Cells through Composition Engineering. <i>Advanced Science</i> , 2201487	13.6	3
4	Impact of Anion Impurities in Commercial PbI ₂ on Lead Halide Perovskite Films and Solar Cells 2021 , 3, 351-355		2
3	Intrinsic Green Fluorescent Cross-Linked Poly(ester amide)s by Spontaneous Zwitterionic Copolymerization. <i>Biomacromolecules</i> , 2021 , 22, 4794-4804	6.9	1
2	Prospects of photovoltaic rooftops, walls and windows at a city to building scale. <i>Solar Energy</i> , 2021 , 230, 675-687	6.8	1
1	Phase-Control of Single-Crystalline Inorganic Halide Perovskites via Molecular Coordination Engineering (Adv. Funct. Mater. 16/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270096	15.6	