

Annamaria Petrozza

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149
papers

26,147
citations

54
h-index

161
g-index

162
ext. papers

29,414
ext. citations

14.8
avg, IF

7.15
L-index

#	Paper	IF	Citations
149	Doping of Soft Semiconductors. <i>ACS Energy Letters</i> , 2022 , 7, 1101-1102	20.1	2
148	Disentangling Electron-Phonon Coupling and Thermal Expansion Effects in the Band Gap Renormalization of Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 569-575	6.4	10
147	Layered Perovskite Doping with Eu and Ethylenediamine Complex. <i>Chemistry of Materials</i> , 2021 , 33, 2289-2297	20.1	9
146	Air-Processed Infrared-Annealed Printed Methylammonium-Free Perovskite Solar Cells and Modules Incorporating Potassium-Doped Graphene Oxide as an Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11741-11754	9.5	17
145	Photoelectrochemical water splitting by hybrid organic-inorganic systems: setting the path from 2% to 20% solar-to-hydrogen conversion efficiency. <i>IScience</i> , 2021 , 24, 102463	6.1	5
144	High-Sensitivity Flexible X-Ray Detectors based on Printed Perovskite Inks. <i>Advanced Functional Materials</i> , 2021 , 31, 2009072	15.6	17
143	Coordinating Solvent-Assisted Synthesis of Phase-Stable Perovskite Nanocrystals with High Yield Production for Optoelectronic Applications. <i>Chemistry of Materials</i> , 2021 , 33, 547-553	9.6	3
142	High External Photoluminescence Quantum Yield in Tin Halide Perovskite Thin Films. <i>ACS Energy Letters</i> , 2021 , 6, 609-611	20.1	15
141	Moisture resistance in perovskite solar cells attributed to a water-splitting layer. <i>Communications Materials</i> , 2021 , 2,	6	13
140	Time-Dependent Field Effect in Three-Dimensional Lead-Halide Perovskite Semiconductor Thin Films. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10603-10609	6.1	2
139	Optical Gain of Lead Halide Perovskites Measured via the Variable Stripe Length Method: What We Can Learn and How to Avoid Pitfalls. <i>Advanced Optical Materials</i> , 2021 , 9, 2001773	8.1	9
138	The role of a dark exciton reservoir in the luminescence efficiency of two-dimensional tin iodide perovskites. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10889-10896	7.1	15
137	Ultrafast charge carrier dynamics in quantum confined 2D perovskite. <i>Journal of Chemical Physics</i> , 2020 , 152, 214705	3.9	7
136	Dynamical Imaging of Surface Photopotentials in Hybrid Lead Iodide Perovskite Films under High Optical Irradiance and the Role of Selective Contacts. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000297	4.6	4
135	Engineering Multiphase Metal Halide Perovskites Thin Films for Stable and Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903221	21.8	8
134	Metal composition influences optoelectronic quality in mixed-metal lead-halide perovskite solar absorbers. <i>Energy and Environmental Science</i> , 2020 , 13, 1776-1787	35.4	50
133	Metal Coordination Sphere Deformation Induced Highly Stokes-Shifted, Ultra Broadband Emission in 2D Hybrid Lead-Bromide Perovskites and Investigation of Its Origin. <i>Angewandte Chemie</i> , 2020 , 132, 10883-10888	3.6	1

132	Metal Coordination Sphere Deformation Induced Highly Stokes-Shifted, Ultra Broadband Emission in 2D Hybrid Lead-Bromide Perovskites and Investigation of Its Origin. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10791-10796	16.4	15
131	CsPbBr ₃ nanocrystal inks for printable light harvesting devices. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 171-176	5.8	2
130	Role of Excess FAI in Formation of High-Efficiency FAPbI ₃ -Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1906875	15.6	23
129	Humidity-robust scalable metal halide perovskite film deposition for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25283-25289	13	4
128	New Synthetic Route of Ultrapure Alkylammonium Iodides for Perovskite Thin Films of Superior Optoelectronic Properties. <i>Energy Technology</i> , 2020 , 8, 2000478	3.5	2
127	Defect Tolerance and Intolerance in Metal-Halide Perovskites. <i>Advanced Energy Materials</i> , 2020 , 10, 2001959	19.59	38
126	Understanding Charge Transport in High-Mobility p-Doped Multicomponent Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000539	6.4	9
125	Controlling competing photochemical reactions stabilizes perovskite solar cells. <i>Nature Photonics</i> , 2019 , 13, 532-539	33.9	161
124	Large polaron evidence in the ultrafast THz response of Lead-Halide Perovskites. <i>EPJ Web of Conferences</i> , 2019 , 205, 04019	0.3	
123	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. <i>Physical Review Letters</i> , 2019 , 122, 166601	7.4	56
122	Evidence of Spiro-OMeTAD De-doping by tert-Butylpyridine Additive in Hole-Transporting Layers for Perovskite Solar Cells. <i>CheM</i> , 2019 , 5, 1806-1817	16.2	54
121	Imaging photoinduced surface potentials on hybrid perovskites by real-time Scanning Electron Microscopy. <i>Micron</i> , 2019 , 121, 53-65	2.3	5
120	High-Detectivity Perovskite Light Detectors Printed in Air from Benign Solvents. <i>CheM</i> , 2019 , 5, 868-880	16.2	16
119	Rational molecular passivation for high-performance perovskite light-emitting diodes. <i>Nature Photonics</i> , 2019 , 13, 418-424	33.9	638
118	White light emission in low-dimensional perovskites. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4956-4969	9.1	99
117	Electron-Phonon Couplings Inherent in Polarons Drive Exciton Dynamics in Two-Dimensional Metal-Halide Perovskites. <i>Chemistry of Materials</i> , 2019 , 31, 7085-7091	9.6	22
116	Defect Activity in Lead Halide Perovskites. <i>Advanced Materials</i> , 2019 , 31, e1901183	24	119
115	Defect Engineering in 2D Perovskite by Mn(II) Doping for Light-Emitting Applications. <i>CheM</i> , 2019 , 5, 2146-2158	16.2	54

114	Enhanced screening and spectral diversity in many-body elastic scattering of excitons in two-dimensional hybrid metal-halide perovskites. <i>Physical Review Research</i> , 2019 , 1,	3.9	18
113	Broadband Defects Emission and Enhanced Ligand Raman Scattering in 0D Cs ₃ Bi ₂ I ₉ Colloidal Nanocrystals. <i>Advanced Functional Materials</i> , 2019 , 29, 1805299	15.6	31
112	Phonon coherences reveal the polaronic character of excitons in two-dimensional lead halide perovskites. <i>Nature Materials</i> , 2019 , 18, 349-356	27	160
111	Hexa-substituted benzene derivatives as hole transporting materials for efficient perovskite solar cells. <i>Dyes and Pigments</i> , 2019 , 163, 267-273	4.6	6
110	Clues from defect photochemistry. <i>Nature Materials</i> , 2018 , 17, 383-384	27	28
109	Iodine chemistry determines the defect tolerance of lead-halide perovskites. <i>Energy and Environmental Science</i> , 2018 , 11, 702-713	35.4	353
108	Interfacial Morphology Addresses Performance of Perovskite Solar Cells Based on Composite Hole Transporting Materials of Functionalized Reduced Graphene Oxide and P3HT. <i>Solar Rrl</i> , 2018 , 2, 1800013	7.1	27
107	High speed solution-processed hybrid perovskite photodetectors with low dark current enabled by a low temperature metal oxide interlayer. <i>Semiconductor Science and Technology</i> , 2018 , 33, 094004	1.8	12
106	Stable biexcitons in two-dimensional metal-halide perovskites with strong dynamic lattice disorder. <i>Physical Review Materials</i> , 2018 , 2,	3.2	66
105	Exciton-polaron spectral structures in two-dimensional hybrid lead-halide perovskites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	76
104	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. <i>APL Materials</i> , 2018 , 6, 114207	5.7	15
103	New Generation Hole Transporting Materials for Perovskite Solar Cells: Amide-Based Small-Molecules with Nonconjugated Backbones. <i>Advanced Energy Materials</i> , 2018 , 8, 1801605	21.8	58
102	Monolithically Integrated Perovskite Semiconductor Lasers on Silicon Photonic Chips by Scalable Top-Down Fabrication. <i>Nano Letters</i> , 2018 , 18, 6915-6923	11.5	52
101	Probing femtosecond lattice displacement upon photo-carrier generation in lead halide perovskite. <i>Nature Communications</i> , 2018 , 9, 1971	17.4	78
100	Enhanced solar cell stability by hygroscopic polymer passivation of metal halide perovskite thin film. <i>Energy and Environmental Science</i> , 2018 , 11, 2609-2619	35.4	178
99	Fully Solution-Processed n-i-p-Like Perovskite Solar Cells with Planar Junction: How the Charge Extracting Layer Determines the Open-Circuit Voltage. <i>Advanced Materials</i> , 2017 , 29, 1604493	24	48
98	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 604-613	35.4	387
97	Defect-Assisted Photoinduced Halide Segregation in Mixed-Halide Perovskite Thin Films. <i>ACS Energy Letters</i> , 2017 , 2, 1416-1424	20.1	307

96	Synthesis of Dibenzo[hi,st]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6753-6757	16.4	58
95	Functionalization of transparent conductive oxide electrode for TiO ₂ -free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11882-11893	13	43
94	Thermoelectric Properties of Highly Conductive Poly(3,4-ethylenedioxythiophene) Polystyrene Sulfonate Printed Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18151-18160	9.5	21
93	Trends in Perovskite Solar Cells and Optoelectronics: Status of Research and Applications from the PSCO Conference. <i>ACS Energy Letters</i> , 2017 , 2, 857-861	20.1	21
92	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. <i>Nature Energy</i> , 2017 , 2,	62.3	407
91	Lattice Distortions Drive Electron-Hole Correlation within Micrometer-Size Lead-Iodide Perovskite Crystals. <i>ACS Energy Letters</i> , 2017 , 2, 265-269	20.1	15
90	Broadband Emission in Two-Dimensional Hybrid Perovskites: The Role of Structural Deformation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 39-42	16.4	253
89	Organics go hybrid. <i>Nature Photonics</i> , 2017 , 11, 20-22	33.9	6
88	High-Quality, Ligands-Free, Mixed-Halide Perovskite Nanocrystals Inks for Optoelectronic Applications. <i>Advanced Energy Materials</i> , 2017 , 7, 1601703	21.8	26
87	The Renaissance of fullerenes with perovskite solar cells. <i>Nano Energy</i> , 2017 , 41, 84-100	17.1	92
86	Crystal Engineering of a Two-Dimensional Lead-Free Perovskite with Functional Organic Cations by Second-Sphere Coordination. <i>ChemPlusChem</i> , 2017 , 82, 681-685	2.8	26
85	Integrated perovskite lasers on a silicon nitride waveguide platform by cost-effective high throughput fabrication. <i>Optics Express</i> , 2017 , 25, 13199-13206	3.3	36
84	Structural and optical properties of methylammonium lead iodide across the tetragonal to cubic phase transition: implications for perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 155-163	35.4	355
83	Revisiting photocarrier lifetimes in photovoltaics. <i>Nature Photonics</i> , 2016 , 10, 562-562	33.9	16
82	-Methylformamide as a Source of Methylammonium Ions in the Synthesis of Lead Halide Perovskite Nanocrystals and Bulk Crystals. <i>ACS Energy Letters</i> , 2016 , 1, 1042-1048	20.1	45
81	Defects in perovskite-halides and their effects in solar cells. <i>Nature Energy</i> , 2016 , 1,	62.3	621
80	Two-dimensional charge transport in molecularly ordered polymer field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11135-11142	7.1	21
79	A dual-phase architecture for efficient amplified spontaneous emission in lead iodide perovskites. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4630-4633	7.1	14

78	Photophysics of Hybrid Lead Halide Perovskites: The Role of Microstructure. <i>Accounts of Chemical Research</i> , 2016 , 49, 536-44	24.3	95
77	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1010-6	16.4	615
76	Chapter 4:Photophysics of Hybrid Perovskites. <i>RSC Energy and Environment Series</i> , 2016 , 107-140	0.6	3
75	Ion Migration and the Role of Preconditioning Cycles in the Stabilization of the J _{sc} Characteristics of Inverted Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501453	21.8	139
74	Research Update: Luminescence in lead halide perovskites. <i>APL Materials</i> , 2016 , 4, 091506	5.7	12
73	Carrier trapping and recombination: the role of defect physics in enhancing the open circuit voltage of metal halide perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 3472-3481	35.4	317
72	Photoinduced Emissive Trap States in Lead Halide Perovskite Semiconductors. <i>ACS Energy Letters</i> , 2016 , 1, 726-730	20.1	120
71	Nonlinear Carrier Interactions in Lead Halide Perovskites and the Role of Defects. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13604-13611	16.4	61
70	Vibrational Response of Methylammonium Lead Iodide: From Cation Dynamics to Phonon-Phonon Interactions. <i>ChemSusChem</i> , 2016 , 9, 2994-3004	8.3	38
69	Improving the Long-Term Stability of Perovskite Solar Cells with a Porous Al ₂ O ₃ Buffer Layer. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 432-7	6.4	301
68	17.6% stabilized efficiency in low-temperature processed planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 2365-2370	35.4	281
67	Tuning the Optical Properties of Cesium Lead Halide Perovskite Nanocrystals by Anion Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10276-81	16.4	1410
66	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015 , 9, 9380-93	16.7	366
65	Charge selective contacts, mobile ions and anomalous hysteresis in organic/inorganic perovskite solar cells. <i>Materials Horizons</i> , 2015 , 2, 315-322	14.4	338
64	Hyperbranched quasi-1D TiO ₂ nanostructure for hybrid organic-inorganic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7451-5	9.5	11
63	Highly efficient planar perovskite solar cells through band alignment engineering. <i>Energy and Environmental Science</i> , 2015 , 8, 2928-2934	35.4	949
62	Role of Microstructure in the Electron-Hole Interaction of Hybrid Lead-Halide Perovskites. <i>Nature Photonics</i> , 2015 , 9, 695-701	33.9	203
61	CHNHPbI perovskite single crystals: surface photophysics and their interaction with the environment. <i>Chemical Science</i> , 2015 , 6, 7305-7310	9.4	171

60	Modulating the Electron-Hole Interaction in a Hybrid Lead Halide Perovskite with an Electric Field. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15451-9	16.4	51
59	Stability of Metal Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500963	21.8	861
58	Mapping Electric Field-Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. <i>Advanced Energy Materials</i> , 2015 , 5, 1500962	21.8	179
57	Molecular packing and electronic processes in amorphous-like polymer bulk heterojunction solar cells with fullerene intercalation. <i>Scientific Reports</i> , 2014 , 4, 5211	4.9	28
56	Supramolecular halogen bond passivation of organic-inorganic halide perovskite solar cells. <i>Nano Letters</i> , 2014 , 14, 3247-54	11.5	527
55	Lead-free organic-inorganic tin halide perovskites for photovoltaic applications. <i>Energy and Environmental Science</i> , 2014 , 7, 3061-3068	35.4	1635
54	Charge Generation at Polymer/Metal Oxide Interface: from Molecular Scale Dynamics to Mesoscopic Effects. <i>Advanced Functional Materials</i> , 2014 , 24, 3094-3099	15.6	10
53	An Organic Donor-Free Dye with Enhanced Open-Circuit Voltage in Solid-State Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400166	21.8	31
52	Room-temperature treatments for all-inorganic nanocrystal solar cell devices. <i>Thin Solid Films</i> , 2014 , 560, 44-48	2.2	4
51	The Raman Spectrum of the CH ₃ NH ₃ PbI ₃ Hybrid Perovskite: Interplay of Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 279-84	6.4	476
50	The critical role of interfacial dynamics in the stability of organic photovoltaic devices. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8294-300	3.6	15
49	Three-dimensional self-assembly of networked branched TiO ₂ nanocrystal scaffolds for efficient room-temperature processed depleted bulk heterojunction solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5026-33	9.5	6
48	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3836-42	6.4	218
47	Impact of Molecular Charge-Transfer States on Photocurrent Generation in Solid State Dye-Sensitized Solar Cells Employing Low-Band-Gap Dyes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16825-16830	3.8	10
46	Nature of Charge Carriers in a High Electron Mobility Naphthalenediimide Based Semiconducting Copolymer. <i>Advanced Functional Materials</i> , 2014 , 24, 5584-5593	15.6	26
45	Role of the crystallization substrate on the photoluminescence properties of organo-lead mixed halides perovskites. <i>APL Materials</i> , 2014 , 2, 081509	5.7	83
44	Atomistic simulations of thiol-terminated modifiers for hybrid photovoltaic interfaces. <i>Thin Solid Films</i> , 2014 , 560, 34-38	2.2	1
43	Regulation of photosystem I light harvesting by zeaxanthin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2431-8	11.5	59

42	Enhancing light harvesting by hierarchical functionally graded transparent conducting Al-doped ZnO nano- and mesoarchitectures. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 248-253	6.4	12
41	Photoactive molecular junctions based on self-assembled monolayers of indoline dyes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19774-82	9.5	5
40	Nanoscale Analysis of a Hierarchical Hybrid Solar Cell in 3D. <i>Advanced Functional Materials</i> , 2014 , 24, 3043-3050	15.6	15
39	Ultrafast dissociation of triplets in pentacene induced by an electric field. <i>Physical Review B</i> , 2014 , 90,	3.3	18
38	Tuning the light emission properties by band gap engineering in hybrid lead halide perovskite. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17730-3	16.4	479
37	Photoemission study of the Poly(3-hexylthiophene)/TiO ₂ interface and the role of 4-Mercaptopyridine. <i>Thin Solid Films</i> , 2014 , 560, 39-43	2.2	5
36	Excitons versus free charges in organo-lead tri-halide perovskites. <i>Nature Communications</i> , 2014 , 5, 3586	17.4	1231
35	Reply to 'Measuring internal quantum efficiency to demonstrate hot exciton dissociation'. <i>Nature Materials</i> , 2013 , 12, 594-5	27	14
34	Electron-hole diffusion lengths exceeding 1 micrometer in an organometal trihalide perovskite absorber. <i>Science</i> , 2013 , 342, 341-4	33.3	7280
33	Panchromatic "Dye-Doped" Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 442-7	6.4	13
32	Hot exciton dissociation in polymer solar cells. <i>Nature Materials</i> , 2013 , 12, 29-33	27	496
31	Photo-active integrated getters for stable dye-sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 2163	3.7	3
30	Polymerization inhibition by triplet state absorption for nanoscale lithography. <i>Advanced Materials</i> , 2013 , 25, 904-9	24	46
29	Metal-Free Benzodithiophene-Containing Organic Dyes for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 84-94	3.2	34
28	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. <i>Energy and Environmental Science</i> , 2013 , 6, 1565	35.4	29
27	Role of hot singlet excited states in charge generation at the black dye/TiO ₂ interface. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4334-9	9.5	23
26	X-ray photoemission spectroscopy investigation of the interaction between 4-mercaptopyridine and the anatase TiO ₂ surface. <i>Langmuir</i> , 2013 , 29, 8302-10	4	16
25	Anisotropic ionic conductivity in fluorinated ionic liquid crystals suitable for optoelectronic applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6572	13	59

24	Hyperbranched quasi-1D nanostructures for solid-state dye-sensitized solar cells. <i>ACS Nano</i> , 2013 , 7, 10023-31	16.7	61
23	Ultrafast energy transfer in ultrathin organic donor/acceptor blend. <i>Scientific Reports</i> , 2013 , 3, 2073	4.9	34
22	Role of Molecular Thermodynamical Processes at Functionalized Polymer/Metaloxide Interfaces for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13894-13901	3.8	11
21	Effect of polymer morphology on P3HT-based solid-state dye sensitized solar cells: an ultrafast spectroscopic investigation. <i>Optics Express</i> , 2013 , 21 Suppl 3, A469-74	3.3	15
20	Ultrafast exciton dissociation at donor/acceptor interfaces 2013 ,		1
19	Hot Exciton Dissociation at Organic Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1537, 1		
18	Synergistic effects of interfacial modifiers enhance current and voltage in hybrid solar cells. <i>APL Materials</i> , 2013 , 1, 042109	5.7	13
17	Infiltration and Selective Interactions at the Interface in Polymer-Oxide Hybrid Solar Cells. <i>Journal of Physics: Conference Series</i> , 2013 , 443, 012051	0.3	1
16	Ultrafast spectroscopic imaging of exfoliated graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2497-2499	1.3	6
15	Effects of Polymer Packing Structure on Photoinduced Triplet Generation and Dynamics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11298-11305	3.8	6
14	A polyfluoroalkyl imidazolium ionic liquid as iodide ion source in dye sensitized solar cells. <i>Organic Electronics</i> , 2012 , 13, 2474-2478	3.5	37
13	Light energy harvesting with nano-dipoles. <i>Nanoscale</i> , 2012 , 4, 1728-33	7.7	5
12	The effect of selective interactions at the interface of polymer/oxide hybrid solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 9068	35.4	42
11	Plasmonic dye-sensitized solar cells using core-shell metal-insulator nanoparticles. <i>Nano Letters</i> , 2011 , 11, 438-45	11.5	515
10	Influence of Ion Induced Local Coulomb Field and Polarity on Charge Generation and Efficiency in Poly(3-Hexylthiophene)-Based Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 2571-2579	15.6	61
9	Dielectric switching of the nature of excited singlet state in a donor-acceptor-type polyfluorene copolymer. <i>Physical Review B</i> , 2010 , 81,	3.3	26
8	Charge Generation and Photovoltaic Operation of Solid-State Dye-Sensitized Solar Cells Incorporating a High Extinction Coefficient Indolene-Based Sensitizer. <i>Advanced Functional Materials</i> , 2009 , 19, 1810-1818	15.6	118
7	Optoelectronic and charge transport properties at organic-organic semiconductor interfaces: comparison between polyfluorene-based polymer blend and copolymer. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13120-31	16.4	72

6	High Extinction Coefficient Antenna Dye in Solid-State Dye-Sensitized Solar Cells: A Photophysical and Electronic Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7562-7566	3.8	47
5	Electron transport and recombination in dye-sensitized mesoporous TiO ₂ probed by photoinduced charge-conductivity modulation spectroscopy with Monte Carlo modeling. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12912-20	16.4	50
4	Control of Rapid Formation of Interchain Excited States in Sugar-Threaded Supramolecular Wires. <i>Advanced Materials</i> , 2008 , 20, 3218-3223	24	46
3	Photophysical Properties of a Series of Poly(ladder-type phenylene)s. <i>Advanced Functional Materials</i> , 2007 , 17, 3231-3240	15.6	30
2	Energy Distribution in Tin Halide Perovskite. <i>Solar Rrl</i> , 2100825	7.1	3
1	Defect activity in metal halide perovskites with wide and narrow bandgap. <i>Nature Reviews Materials</i> ,	73.3	26