

Jianyong Ouyang

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.

183 papers	17,030 citations	67 h-index	129 g-index
190 ext. papers	19,355 ext. citations	10.5 avg, IF	7.27 L-index

#	Paper	IF	Citations
183	Thermoelectric Properties of Conducting Polymers with Ionic Conductors 2022 , 145-162		
182	Fundamental Knowledge on Thermoelectric Materials 2022 , 1-39		
181	Ionic thermoelectrics: principles, materials and applications. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 433-450	7.1	5
180	Visible light-induced enhancement in the Seebeck coefficient of PEDOT:PSS composites with two-dimensional potassium poly-(heptazine imide). <i>Journal of Materials Chemistry A</i> , 2022 , 10, 862-871	13	2
179	Flexible Thermoelectrics Based on Poly(3,4-Ethylenedioxythiophene) 2022 , 81-116		
178	Recent Progress of Electrode Materials for Flexible Perovskite Solar Cells.. <i>Nano-Micro Letters</i> , 2022 , 14, 117	19.5	10
177	Flexible perovskite solar cells: Material selection and structure design. <i>Applied Physics Reviews</i> , 2022 , 9, 021307	17.3	4
176	Role of Ions in Hydrogels with an Ionic Seebeck Coefficient of 52.9 mV K.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4621-4627	6.4	6
175	Wirelessly operated bioelectronic sutures for the monitoring of deep surgical wounds. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1217-1227	19	9
174	Cation effect of inorganic salts on ionic Seebeck coefficient. <i>Applied Physics Letters</i> , 2021 , 118, 103902	3.4	6
173	Self-Adhesive, Stretchable, Biocompatible, and Conductive Nonvolatile Eutectogels as Wearable Conformal Strain and Pressure Sensors and Biopotential Electrodes for Precise Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20735-20745	9.5	17
172	Biocompatible Blends of an Intrinsically Conducting Polymer as Stretchable Strain Sensors for Real-Time Monitoring of Starch-Based Food Processing. <i>Advanced Functional Materials</i> , 2021 , 31, 2102745	15.6	4
171	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37816-37829	9.5	6
170	Rapid one-step in situ synthesis of carbon nanoparticles with cellulosic paper for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129849	8.5	
169	Recent developments in flexible thermoelectrics: From materials to devices. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 137, 110448	16.2	29
168	Recent advances in resistive random access memory based on lead halide perovskite. <i>Information Materials</i> , 2021 , 3, 293-315	23.1	29
167	Wearable Stretchable Dry and Self-Adhesive Strain Sensors with Conformal Contact to Skin for High-Quality Motion Monitoring. <i>Advanced Functional Materials</i> , 2021 , 31, 2007495	15.6	64

166	Enhancement in the Mechanical Stretchability of PEDOT:PSS Films by Compounds of Multiple Hydroxyl Groups for Their Application as Transparent Stretchable Conductors. <i>Macromolecules</i> , 2021 , 54, 1234-1242	5.5	7
165	A highly sensitive, foldable and wearable pressure sensor based on MXene-coated airlaid paper for electronic skin. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12642-12649	7.1	8
164	A mixed ion-electron conducting carbon nanotube ionogel to efficiently harvest heat from both a temperature gradient and temperature fluctuation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13588-13596	13	6
163	Application of intrinsically conducting polymers in flexible electronics. <i>SmartMat</i> , 2021 , 2, 263-285	22.8	21
162	Tunable Soft Lens of Large Focal Length Change. <i>Soft Robotics</i> , 2021 ,	9.2	2
161	Highly Stretchable and Kirigami-Structured Strain Sensors with Long Silver Nanowires of High Aspect Ratio. <i>Machines</i> , 2021 , 9, 186	2.9	3
160	Gas-permeable and highly sensitive, washable and wearable strain sensors based on graphene/carbon nanotubes hybrids e-textile. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106556	8.4	6
159	Photo-enhanced Seebeck effect of a highly conductive thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16725-16732	13	5
158	Simultaneous enhancements in the Seebeck coefficient and conductivity of PEDOT:PSS by blending ferroelectric BaTiO ₃ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16952-16960	13	3
157	Role of annealing temperature of nickel oxide (NiOx) as hole transport layer in work function alignment with perovskite. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	6
156	Quasi-solid state nanoparticle/(ionic liquid) gels with significantly high ionic thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10813-10821	13	37
155	Thermoelectric polymer films with a significantly high Seebeck coefficient and thermoelectric power factor obtained through surface energy filtering. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13600-13609	13	13
154	Electromechanical characterization of magnetic responsive and conductive soft polymer actuators 2020 , 349-361		1
153	Shallow defects levels and extract detrapped charges to stabilize highly efficient and hysteresis-free perovskite photovoltaic devices. <i>Nano Energy</i> , 2020 , 71, 104556	17.1	28
152	Significant Enhancement in the Seebeck Coefficient and Power Factor of p-Type Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) through the Incorporation of n-Type MXene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13013-13020	9.5	35
151	Highly machine-washable e-textiles with high strain sensitivity and high thermal conduction. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2741-2748	7.1	30
150	Enhancements in the Mechanical Stretchability and Thermoelectric Properties of PEDOT:PSS for Flexible Electronics Applications. <i>Accounts of Materials Research</i> , 2020 , 1, 146-157	7.5	16
149	Ultrahigh Thermoelectric Power Generation from Both Ion Diffusion by Temperature Fluctuation and Hole Accumulation by Temperature Gradient. <i>Advanced Energy Materials</i> , 2020 , 10, 2001633	21.8	16

148	Fully organic compliant dry electrodes self-adhesive to skin for long-term motion-robust epidermal biopotential monitoring. <i>Nature Communications</i> , 2020 , 11, 4683	17.4	85
147	Stretchable and Transparent Ionogels with High Thermoelectric Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2004699	15.6	47
146	Enhancement in the photovoltaic performance of planar perovskite solar cells by perovskite cluster engineering using an interfacial energy modifier. <i>Nanoscale</i> , 2019 , 11, 3216-3221	7.7	9
145	Thermally evaporated two-dimensional SnS as an efficient and stable electron collection interlayer for inverted planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4759-4765	13	12
144	Sequential Solution Polymerization of Poly(3,4-ethylenedioxythiophene) Using VO as Oxidant for Flexible Touch Sensors. <i>IScience</i> , 2019 , 12, 66-75	6.1	35
143	Applications of carbon nanotubes and graphene for third-generation solar cells and fuel cells. <i>Nano Materials Science</i> , 2019 , 1, 77-90	10.2	18
142	20.7% highly reproducible inverted planar perovskite solar cells with enhanced fill factor and eliminated hysteresis. <i>Energy and Environmental Science</i> , 2019 , 12, 1622-1633	35.4	134
141	MXenes with tunable work functions and their application as electron- and hole-transport materials in non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11160-11169	13	80
140	Thermoelectric Properties of PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800769	6.4	141
139	A scalable, low-cost and robust photo-thermal fabric with tunable and programmable 2D/3D structures towards environmentally adaptable liquid/solid-medium water extraction. <i>Nano Energy</i> , 2019 , 65, 104002	17.1	63
138	Transparent Soft Robots for Effective Camouflage. <i>Advanced Functional Materials</i> , 2019 , 29, 1901908	15.6	44
137	Flexible Quasi-Solid State Ionogels with Remarkable Seebeck Coefficient and High Thermoelectric Properties. <i>Advanced Energy Materials</i> , 2019 , 9, 1901085	21.8	84
136	Biocompatible Conductive Polymers with High Conductivity and High Stretchability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26185-26193	9.5	67
135	All-Small-Molecule Organic Solar Cells with an Ordered Liquid Crystalline Donor. <i>Joule</i> , 2019 , 3, 3034-3047	17.8	168
134	Bio-inspired Soft Robot Driven by Transparent Artificial Muscle 2019 ,		1
133	Beyond energy harvesting - multi-functional triboelectric nanosensors on a textile. <i>Nano Energy</i> , 2019 , 57, 338-352	17.1	119
132	Room temperature ferroelectricity of hybrid organic/inorganic perovskites with mixed iodine and bromine. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9665-9676	13	21
131	Recent Development of Thermoelectric Polymers and Composites. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700727	4.8	169

130	Highly washable e-textile prepared by ultrasonic nanosoldering of carbon nanotubes onto polymer fibers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 883-889	7.1	39
129	A theoretical mechanistic study on electrical conductivity enhancement of DMSO treated PEDOT:PSS. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5122-5131	7.1	57
128	Enhancement of the thermoelectric properties of PEDOT:PSS via one-step treatment with cosolvents or their solutions of organic salts. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7080-7087	13	62
127	Investigation on the structural, morphological, electronic and photovoltaic properties of a perovskite thin film by introducing lithium halide.. <i>RSC Advances</i> , 2018 , 8, 11455-11461	3.7	4
126	Metal Ion/Dendrimer Complexes with Tunable Work Functions in a Wide Range and Their Application as Electron- and Hole-Transport Materials of Non-Fullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802554	15.6	10
125	Novel augmented reality interface using a self-powered triboelectric based virtual reality 3D-control sensor. <i>Nano Energy</i> , 2018 , 51, 162-172	17.1	47
124	PEDOT:PSS monolayers to enhance the hole extraction and stability of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16583-16589	13	105
123	Polymer films with ultrahigh thermoelectric properties arising from significant seebeck coefficient enhancement by ion accumulation on surface. <i>Nano Energy</i> , 2018 , 51, 481-488	17.1	116
122	Self-assembled atomically thin hybrid conjugated polymer perovskites with two-dimensional structure. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8405-8410	7.1	3
121	Soft Electronically Functional Polymeric Composite Materials for a Flexible and Stretchable Digital Future. <i>Advanced Materials</i> , 2018 , 30, e1802560	24	88
120	Recent Advances of Intrinsically Conductive Polymers. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2018 , 34, 1211-1220	3.8	24
119	Highly efficient and stable inverted perovskite solar cells with two-dimensional ZnSe deposited using a thermal evaporator for electron collection. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22713-22720	13	8
118	Solution processed intrinsically conductive polymer films with high thermoelectric properties and good air stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24496-24502	13	25
117	Efficiency improvement of planar perovskite solar cells using a phenol additive. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11519-11524	7.1	12
116	Enhancement of Conductivity and Thermoelectric Property of PEDOT:PSS via Acid Doping and Single Post-Treatment for Flexible Power Generator. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1800085	5.9	55
115	Significant enhancement in the Seebeck coefficient and power factor of thermoelectric polymers by the Soret effect of polyelectrolytes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19347-19352	13	43
114	Multifunctional RbCl dopants for efficient inverted planar perovskite solar cell with ultra-high fill factor, negligible hysteresis and improved stability. <i>Nano Energy</i> , 2018 , 53, 567-578	17.1	47
113	Carbon/Polymer Composite Electrocatalysts for the Counter Electrode of Dye-Sensitized Solar Cells 2018 , 263-293		

112	Development of quinoxaline based polymers for photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1858-1879	7.1	74
111	Stretchable heaters with composites of an intrinsically conductive polymer, reduced graphene oxide and an elastomer for wearable thermotherapy. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1544-1551	7.1	78
110	Ultraviolet, blue, and green InGaN-based light-emitting diodes functionalized with ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 612-618	5.7	14
109	Effect of water-soluble vitamins on the structure and properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate). <i>Organic Electronics</i> , 2017 , 45, 139-144	3.5	8
108	Conductivity Enhancement of PEDOT:PSS via Addition of Chloroplatinic Acid and Its Mechanism. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700047	6.4	90
107	Electrode Materials for Printable Solar Cells 2017 , 457-512		4
106	Solution-Processed Highly Superparamagnetic and Conductive PEDOT:PSS/FeO Nanocomposite Films with High Transparency and High Mechanical Flexibility. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19001-19010	9.5	38
105	Variable temperature and high-pressure crystal chemistry of perovskite formamidinium lead iodide: a single crystal X-ray diffraction and computational study. <i>Chemical Communications</i> , 2017 , 53, 7537-7540	5.8	31
104	Tandem Solar Cells: Enhanced Output from Biohybrid Photoelectrochemical Transparent Tandem Cells Integrating Photosynthetic Proteins Genetically Modified for Expanded Solar Energy Harvesting (Adv. Energy Mater. 7/2017). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	1
103	Higher PEDOT Molecular Weight Giving Rise to Higher Thermoelectric Property of PEDOT:PSS: A Comparative Study of Clevios P and Clevios PH1000. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11732-11738	9.5	67
102	Significantly Enhanced Thermoelectric Properties of PEDOT:PSS Films through Sequential Post-Treatments with Common Acids and Bases. <i>Advanced Energy Materials</i> , 2017 , 7, 1602116	21.8	220
101	Enhanced Output from Biohybrid Photoelectrochemical Transparent Tandem Cells Integrating Photosynthetic Proteins Genetically Modified for Expanded Solar Energy Harvesting. <i>Advanced Energy Materials</i> , 2017 , 7, 1601821	21.8	30
100	The Effect of Methylammonium Iodide on the Supersaturation and Interfacial Energy of the Crystallization of Methylammonium Lead Triiodide Single Crystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16073-16076	16.4	15
99	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3683-3683	8.3	
98	Enhanced planar heterojunction perovskite solar cell performance and stability using PDPA polyelectrolyte capping agent. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 172, 133-139	6.4	18
97	The Effect of Methylammonium Iodide on the Supersaturation and Interfacial Energy of the Crystallization of Methylammonium Lead Triiodide Single Crystals. <i>Angewandte Chemie</i> , 2017 , 129, 16289-16292	3.6	
96	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3740-3745	8.3	55
95	Significant Enhancement in the Thermoelectric Properties of PEDOT:PSS Films through a Treatment with Organic Solutions of Inorganic Salts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23204-11	9.5	91

94	Stretchable and conductive polymer films for high-performance electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6525-6532	7.1	132
93	A new view of graphene oxide biosafety in a water environment using an eatable fish as a model. <i>RSC Advances</i> , 2016 , 6, 29619-29623	3.7	7
92	Poly(3,4-ethylenedioxythiophene):polystyrene sulfonate films with low conductivity and low acidity through a treatment of their solutions with probe ultrasonication and their application as hole transport layer in polymer solar cells and perovskite solar cells. <i>Organic Electronics</i> , 2016 , 32, 149-156	3.5	49
91	Graphene coated nonwoven fabrics as wearable sensors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3224-3230	3.3	86
90	Boosting the performance of planar heterojunction perovskite solar cell by controlling the precursor purity of perovskite materials. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 887-893	13	117
89	High performance planar perovskite solar cells with a perovskite of mixed organic cations and mixed halides, MA _{1-x} FaxPbI _{3-x} Cl _x . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12543-12553	13	57
88	Enhancing the planar heterojunction perovskite solar cell performance through tuning the precursor ratio. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7943-7949	13	79
87	PEDOT:PSS Films with Metallic Conductivity through a Treatment with Common Organic Solutions of Organic Salts and Their Application as a Transparent Electrode of Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11629-38	9.5	147
86	Elucidating the charge carrier transport and extraction in planar heterojunction perovskite solar cells by Kelvin probe force microscopy. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17464-17472	13	38
85	Enhancing the photovoltaic performance of planar heterojunction perovskite solar cells by doping the perovskite layer with alkali metal ions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16546-16552	13	119
84	Interface studies of the planar heterojunction perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 783-790	6.4	38
83	Ternary NiAuPt Nanoparticles on Reduced Graphene Oxide as Catalysts toward the Electrochemical Oxidation Reaction of Ethanol. <i>ACS Catalysis</i> , 2015 , 5, 1371-1380	13.1	84
82	Photoluminescence of Graphene Oxide in Visible Range Arising from Excimer Formation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20085-20090	3.8	38
81	Effects of H ₂ /CO blend ratio on radiated power of micro combustor/emitter. <i>Applied Thermal Engineering</i> , 2015 , 86, 178-186	5.8	28
80	Effects of organic inorganic hybrid perovskite materials on the electronic properties and morphology of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and the photovoltaic performance of planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15897-15904	13	71
79	Two-terminal resistive switching memory devices with a polymer film embedded with nanoparticles. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7243-7261	7.1	22
78	Transparent conductive oxide-free perovskite solar cells with PEDOT:PSS as transparent electrode. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15314-20	9.5	169
77	Electronic transfer from aluminum into the core of gold nanoparticles capped with conjugated 2-naphthalenethiol. <i>Organic Electronics</i> , 2015 , 21, 138-143	3.5	4

76	Review on application of PEDOTs and PEDOT:PSS in energy conversion and storage devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4438-4462	2.1	347
75	Ferroelectricity of CH ₃ NH ₃ PbI ₃ Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1155-61	6.4	260
74	Layered V ₂ O ₅ /PEDOT Nanowires and Ultrathin Nanobelts Fabricated with a Silk Reelinglike Process. <i>Chemistry of Materials</i> , 2015 , 27, 5813-5819	9.6	57
73	Stretchable and Conductive Polymer Films Prepared by Solution Blending. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18415-23	9.5	123
72	Nitrogen-Doped Reduced Graphene Oxide Prepared by Simultaneous Thermal Reduction and Nitrogen Doping of Graphene Oxide in Air and Its Application as an Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26952-8	9.5	79
71	Addressing the light-soaking issue in inverted organic solar cells using chemical bath deposited fluorinated TiO _x electron transport layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 314-322	13	34
70	Efficiency enhancement of planar perovskite solar cells by adding zwitterion/LiF double interlayers for electron collection. <i>Nanoscale</i> , 2015 , 7, 896-900	7.7	119
69	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. <i>Nature Communications</i> , 2015 , 6, 6013	17.4	455
68	Improved efficiency and stability of polymer solar cells utilizing two-dimensional reduced graphene oxide: graphene oxide nanocomposites as hole-collection material. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22334-42	9.5	37
67	Graphene oxide/multi-walled carbon nanotube nanocomposites as the gelator of gel electrolytes for quasi-solid state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9226	13	21
66	Highly efficient iodide/triiodide dye-sensitized solar cells with gel-coated reduce graphene oxide/single-walled carbon nanotube composites as the counter electrode exhibiting an open-circuit voltage of 0.90 V. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6657-64	9.5	48
65	Secondary doping methods to significantly enhance the conductivity of PEDOT:PSS for its application as transparent electrode of optoelectronic devices. <i>Displays</i> , 2013 , 34, 423-436	3.4	226
64	In situ deposition of gold nanostructures with well-defined shapes on unfunctionalized reduced graphene oxide through chemical reduction of a dry gold precursor with ethylene glycol vapor. <i>RSC Advances</i> , 2013 , 3, 1201-1209	3.7	12
63	Ethyl cellulose and functionalized carbon nanotubes as a co-gelator for high-performance quasi-solid state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14392	13	21
62	Solution-processed PEDOT:PSS films with conductivities as indium tin oxide through a treatment with mild and weak organic acids. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13082-8	9.5	184
61	Thermal performance of micro-combustors with baffles for thermophotovoltaic system. <i>Applied Thermal Engineering</i> , 2013 , 61, 670-677	5.8	63
60	Polymer:nanoparticle memory devices with electrode-sensitive bipolar resistive switches by exploring the electrical contact between a bulk metal and metal nanoparticles. <i>Organic Electronics</i> , 2013 , 14, 665-675	3.5	19
59	Highly efficient inverted polymer solar cells with a solution-processable dendrimer as the electron-collection interlayer. <i>Applied Physics Letters</i> , 2013 , 102, 083302	3.4	10

58	Improvement in the photovoltaic efficiency of polymer solar cells by treating the poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) buffer layer with co-solvents of hydrophilic organic solvents and hydrophobic 1,2-dichlorobenzene. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 89-96	6.4	59
57	High-performance polymer solar cells with a conjugated zwitterion by solution processing or thermal deposition as the electron-collection interlayer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24155		69
56	Highly efficient, inverted polymer solar cells with indium tin oxide modified with solution-processed zwitterions as the transparent cathode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2009-17	9.5	74
55	Highly conductive PEDOT:PSS films prepared through a treatment with geminal diols or amphiphilic fluoro compounds. <i>Organic Electronics</i> , 2012 , 13, 1785-1792	3.5	44
54	Functionalized carbon nanotube-induced viscosity reduction of an ionic liquid and performance improvement of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012 , 85, 1-8	6.7	34
53	Highly conductive poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) films treated with an amphiphilic fluoro compound as the transparent electrode of polymer solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 5325-5332	35.4	209
52	Significant different conductivities of the two grades of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate), Clevios P and Clevios PH1000, arising from different molecular weights. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4131-40	9.5	118
51	Reduced graphene oxide films fabricated by gel coating and their application as platinum-free counter electrodes of highly efficient iodide/triiodide dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14465		64
50	Solution-processed metallic conducting polymer films as transparent electrode of optoelectronic devices. <i>Advanced Materials</i> , 2012 , 24, 2436-40	24	822
49	Ultrafast reduction of graphene oxide with Zn powder in neutral and alkaline solutions at room temperature promoted by the formation of metal complexes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9109		51
48	Electronically and ionically conductive gels of ionic liquids and charge-transfer tetrathiafulvalene-tetracyanoquinodimethane. <i>Langmuir</i> , 2011 , 27, 10953-61	4	29
47	PEDOT:PSS films with significantly enhanced conductivities induced by preferential solvation with cosolvents and their application in polymer photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4927		379
46	Attachment of Platinum Nanoparticles to Substrates by Coating and Polyol Reduction of A Platinum Precursor. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8519-8526	3.8	44
45	Ionic Conductivity Enhancement of Polyethylene Oxide-LiClO ₄ Electrolyte by Adding Functionalized Multi-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16688-16694 ^{3.8}		45
44	Ultrasonication-assisted ultrafast reduction of graphene oxide by zinc powder at room temperature. <i>Carbon</i> , 2011 , 49, 5389-5397	10.4	296
43	Highly conductive and transparent single-walled carbon nanotube thin films fabricated by gel coating. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17842		23
42	Indium tin oxide modified with sodium compounds as cathode of inverted polymer solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18339		32
41	Application of nanomaterials in two-terminal resistive-switching memory devices. <i>Nano Reviews</i> , 2010 , 1,		37

40	Significant conductivity enhancement of conductive poly(3,4-ethylenedioxythiophene): poly(styrenesulfonate) films through a treatment with organic carboxylic acids and inorganic acids. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 474-83	9.5	195
39	High-performance dye-sensitized solar cells with gel-coated binder-free carbon nanotube films as counter electrode. <i>Nanotechnology</i> , 2010 , 21, 395202	3.4	142
38	Nanostructured Platinum Films Deposited by Polyol Reduction of a Platinum Precursor and Their Application as Counter Electrode of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4237-4244	3.8	80
37	Highly conductive PEDOT:PSS films prepared through a treatment with zwitterions and their application in polymer photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9740		167
36	Polymer:metal nanoparticle devices with electrode-sensitive bipolar resistive switchings and their application as nonvolatile memory devices. <i>Applied Physics Letters</i> , 2010 , 96, 063506	3.4	43
35	Anion effect on salt-induced conductivity enhancement of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) films. <i>Organic Electronics</i> , 2010 , 11, 1129-1135	3.5	107
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