

Parameswar Krishnan Iyer

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.

199
papers

4,757
citations

36
h-index

58
g-index

218
ext. papers

5,560
ext. citations

5.6
avg, IF

6.3
L-index

#	Paper	IF	Citations
199	Substantial efficiency enhancement in solution processed phosphorescent light emitting diode with polymer host: Efficient optimization of charge balance and processing conditions. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 163, 110577	3.9	0
198	Emerging technology for point-of-care diagnostics: Recent developments 2022 , 15-42		
197	Nanomaterials for sensors: Synthesis and applications 2022 , 121-168		1
196	Triple Passivation Approach to Laminate Perovskite Layers for Augmented UV and Ambient Stable Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3392-3400	6.1	0
195	Design and Development of Naphthalimide Luminogens 2022 , 559-586		
194	Smart Luminogens for the Detection of Organic Volatile Contaminants 2022 , 491-509		
193	AIE active polymers for biological applications. <i>Progress in Molecular Biology and Translational Science</i> , 2021 , 185, 137-177	4	0
192	Aggregation induced bright organic luminogens: Design strategies, advanced bio-imaging and theranostic applications. <i>Progress in Molecular Biology and Translational Science</i> , 2021 , 185, 75-112	4	
191	Surface recrystallized stable 2D/BD graded perovskite solar cells for efficiency beyond 21%. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26069-26076	13	8
190	Diversifying the xanthine scaffold for potential phosphodiesterase 9A inhibitors: synthesis and validation. <i>Medicinal Chemistry Research</i> , 2021 , 30, 1199-1219	2.2	
189	Stimuli-Responsive Trimorphs and Charge-Transfer Complexes of a Twisted Molecular Donor. <i>Langmuir</i> , 2021 , 37, 8024-8036	4	1
188	Halide Engineering for Mitigating Ion Migration and Defect States in Hot-Cast Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7993-8001	8.3	13
187	Tuning the open circuit voltage by incorporating a difluorophenyl unit into a polymer backbone to achieve high efficiency polymer solar cells. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 874-879	5.8	7
186	Wearable Sensing Devices for Point of Care Diagnostics.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 47-70	4.1	21
185	Fluoroarene derivative based passivation of perovskite solar cells exhibiting excellent ambient and thermo-stability achieving efficiency >20%. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10406-10413	7.1	8
184	Functional materials for various organic electronic devices 2021 , 119-165		2
183	Thin-film devices for chemical, biological, and diagnostic applications 2021 , 369-405		

182	Conjugated Polyelectrolyte-Passivated Stable Perovskite Solar Cells for Efficiency Beyond 20%. <i>Chemistry of Materials</i> , 2021 , 33, 5709-5717	9.6	14
181	Tailoring Trap Density of States through Impedance Analysis for Flexible Organic Field-Effect Transistors. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100574	4.6	7
180	Long Alkyl Chain Induced OFET Characteristic with Low Threshold Voltage in an n-Type Perylene Monoimide Semiconductor. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3575-3587	4	3
179	Dual-Passivation Strategy for Improved Ambient Stability of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10025-10032	6.1	4
178	An unconventional route to an ambipolar azaheterocycle and its generated radical anion. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 5114-5120	3.9	0
177	Tuning Polymer Semiconductor Morphology through Additive Engineering for a Stable Phototransistor. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 5393-5401	4	2
176	Review of Graphitic Carbon Nitride and Its Composite Catalysts for Selective Reduction of CO ₂ . <i>ACS Applied Nano Materials</i> , 2021 , 4, 12845-12890	5.6	2
175	Efficient Trap Passivation of MAPbI ₃ via Multifunctional Anchoring for High-Performance and Stable Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000078	5.9	19
174	Stepwise elucidation of fluorescence based sensing mechanisms considering picric acid as a model analyte. <i>Analyst, The</i> , 2020 , 145, 4753-4767	5	17
173	Exploring Ambipolar Semiconductor Nature of Binary and Ternary Charge-Transfer Cocrystals of Triphenylene, Pyrene, and TCNQ. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6544-6553	3.8	12
172	Recent Developments on Multi-Functional Metal-Free Mechanochromic Luminescence and Thermally Activated Delayed Fluorescence Organic Materials. <i>Frontiers in Chemistry</i> , 2020 , 8, 483	5	21
171	High-Performance Ambient-Condition-Processed Polymer Solar Cells and Organic Thin-Film Transistors. <i>ACS Omega</i> , 2020 , 5, 2747-2754	3.9	7
170	Thermal Stability and Performance Enhancement of Perovskite Solar Cells Through Oxalic Acid-Induced Perovskite Formation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2432-2439	6.1	34
169	Effects of incorporating regioisomers and flexible rotors to direct aggregation induced emission to achieve stimuli-responsive luminogens, security inks and chemical warfare agent sensors. <i>Chemical Communications</i> , 2020 , 56, 7633-7636	5.8	9
168	Regulating active layer thickness and morphology for high performance hot-casted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8191-8198	7.1	12
167	Effect of mono- and di-anchoring dyes based on o,m-difluoro substituted phenylene spacer in liquid and solid state dye sensitized solar cells. <i>Dyes and Pigments</i> , 2020 , 174, 108021	4.6	15
166	Exploring the semiconductor properties of a charge transfer cocrystal of 1-aminopyrene and TCNQ. <i>CrystEngComm</i> , 2020 , 22, 720-727	3.3	10
165	Conjugated Polymer-Based Electrical Sensor for Ultratrace Vapor-Phase Detection of Nerve Agent Mimics. <i>ACS Sensors</i> , 2020 , 5, 191-198	9.2	9

164	Effect of UV-ozone exposure on the dye-sensitized solar cells performance. <i>Solar Energy</i> , 2020 , 208, 2126-2139	2.8	1
163	Advances in conjugated polymers for visualization of latent fingerprints: a critical perspective. <i>New Journal of Chemistry</i> , 2020 , 44, 19423-19439	3.6	6
162	A conformational tweak for enhanced cellular internalization, photobleaching resistance and prolonged imaging efficacy. <i>Chemical Communications</i> , 2020 , 56, 14861-14864	5.8	1
161	Constructing fused bis-isatins from pyrroloindoles using direct oxidation approach and re-visiting indophenine reaction. <i>Polymer</i> , 2020 , 210, 123032	3.9	1
160	Amyloid Targeting "Artificial Chaperone" Impairs Oligomer Mediated Neuronal Damage and Mitochondrial Dysfunction Associated with Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 3277-3287	5.7	5
159	Template-Mediated Detoxification of Low-Molecular-Weight Amyloid Oligomers and Regulation of Their Nucleation Pathway.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5306-5312	4.1	4
158	White light emitting diode based on purely organic fluorescent to modern thermally activated delayed fluorescence (TADF) and perovskite materials. <i>Nano Convergence</i> , 2019 , 6, 31	9.2	18
157	Functionalizing benzothiadiazole with non-conjugating ester groups as side chains in a donor-acceptor polymer improves solar cell performance. <i>New Journal of Chemistry</i> , 2019 , 43, 4242-4252 ^{3,6}	3.6	3
156	"Receptor free" inner filter effect based universal sensors for nitroexplosive picric acid using two polyfluorene derivatives in the solution and solid states. <i>Analyst, The</i> , 2019 , 144, 669-676	5	31
155	Functional group engineering in naphthalimides: a conceptual insight to fine-tune the supramolecular self-assembly and condensed state luminescence. <i>Nanoscale</i> , 2019 , 11, 13233-13242	7.7	23
154	Condition Assessment of Aged Ester-Based Nanofluid Through Physicochemical and Spectroscopic Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4853-4863	5.2	15
153	Heteroatom Bay-Annulated Perylene Bisimides: New Materials for Organic Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1378-1386	4	21
152	6,7-Di(thiophen-2-yl)naphtho[2,3-c][1,2,5]thiadiazole and 4,6,7,9-tetra (thiophen-2-yl)naphtho[2,3-c][1,2,5]thiadiazole as new acceptor units for D-A type co-polymer for polymer solar cells. <i>Synthetic Metals</i> , 2019 , 252, 113-121	3.6	5
151	Solution Processed Donor-Acceptor Polymer Based Electrical Memory Device with High On/Off Ratio and Tunable Properties. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 600-607	4	24
150	Nanoparticle Assisted Regulation of Nucleation Pathway of Amyloid Tetramer and Inhibition of Their Fibrillation Kinetics.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2137-2142	4.1	9
149	The solvatochromism and aggregation-induced enhanced emission of triphenylamine substituted styrene derivatives and its application in dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 376, 12-21	4.7	9
148	An Optoelectronic Device for Rapid Monitoring of Creatine Kinase Using Cationic Conjugated Polyelectrolyte. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900361	6.8	4
147	Charge Transfer Versus Arene-Perfluoroarene Interactions in Modulation of Optical and Conductivity Properties in Cocrystals of 2,7-Di-tert-butylpyrene. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18198-18206	3.8	17

146	Rapid and label-free bacteria detection using a hybrid tri-layer dielectric integrated n-type organic field effect transistor. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18330-18337	13	13
145	Crystallization and grain growth regulation through Lewis acid-base adduct formation in hot cast perovskite-based solar cells. <i>Organic Electronics</i> , 2019 , 74, 172-178	3.5	21
144	Self-Assembled Naphthalimide Nanoparticles for Nonvolatile ReRAM Devices: An Efficient Approach toward High Performance Solution-Processed and All-Organic Two-Terminal Resistive Memory Devices. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2437-2444	4	4
143	An Unprecedented Blueshifted Naphthalimide AIEEgen for Ultrasensitive Detection of 4-Nitroaniline in Water via "Receptor-Free" IFE Mechanism. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 4725-4731	4.5	7
142	Polyfluorene-Based Bioconjugates for Selective Detection of Ferritin in Normal and Cancer Human Blood Serums. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 18-26	4.3	5
141	Aldehyde group driven aggregation-induced enhanced emission in naphthalimides and its application for ultradetection of hydrazine on multiple platforms. <i>Chemical Science</i> , 2018 , 9, 3978-3985	9.4	83
140	Conjugated Polymers for Disease Diagnosis and Theranostics Medicine 2018 , 321-358		1
139	Effect of temperature on hysteresis of dipolar dielectric layer based organic field-effect transistors: A temperature sensing mechanism. <i>Sensors and Actuators A: Physical</i> , 2018 , 269, 491-499	3.9	6
138	Spontaneously Self-Assembled Naphthalimide Nanosheets: Aggregation-Induced Emission and Unveiling a-PET for Sensitive Detection of Organic Volatile Contaminants in Water. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8488-8492	16.4	53
137	Spontaneously Self-Assembled Naphthalimide Nanosheets: Aggregation-Induced Emission and Unveiling a-PET for Sensitive Detection of Organic Volatile Contaminants in Water. <i>Angewandte Chemie</i> , 2018 , 130, 8624-8628	3.6	10
136	Insight into the synthesis and fabrication of 5,6-alt-benzothiadiazole-based DA-conjugated copolymers for bulk-heterojunction solar cell. <i>Polymer Bulletin</i> , 2018 , 75, 2933-2951	2.4	5
135	First Example of White Organic Electroluminescence Utilizing Perylene Ester Imides. <i>ChemistrySelect</i> , 2018 , 3, 5123-5129	1.8	11
134	Fluorescence Resonance Energy Transfer-Based Wash-Free Bacterial Imaging and Antibacterial Application Using a Cationic Conjugated Polyelectrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27603-27611	9.5	34
133	Remarkably Efficient Blood-Brain Barrier Crossing Polyfluorene-Chitosan Nanoparticle Selectively Tweaks Amyloid Oligomer in Cerebrospinal Fluid and A β -40. <i>ACS Omega</i> , 2018 , 3, 8059-8066	3.9	12
132	Inner Filter Effect and Resonance Energy Transfer Based Attogram Level Detection of Nitroexplosive Picric Acid Using Dual Emitting Cationic Conjugated Polyfluorene. <i>ACS Sensors</i> , 2018 , 3, 1451-1461	9.2	46
131	Multifunctional hierarchical 3-D ZnO superstructures directly grown over FTO glass substrates: enhanced photovoltaic and selective sensing applications. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15868-15887	13	17
130	Modulating Early Stage Amyloid Aggregates by Dipeptide-Linked Perylenebisimides: Structure-Activity Relationship, Inhibition of Fibril Formation in Human CSF and A β -40.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 403-413	4.1	3
129	Receptor-Free Detection of Picric Acid: A New Structural Approach for Designing Aggregation-Induced Emission Probes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27260-27268	9.5	42

128	Pronounced luminescence efficiency and thermal stability of small imidazole architect 2-(1, 4, 5-triphenyl-1H-imidazol-2-yl)phenol for efficient non-doped blue OLEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 365, 232-237	4.7	7
127	Collective effect of hybrid Au-Ag nanoparticles and organic-inorganic cathode interfacial layers for high performance polymer solar cell. <i>Solar Energy</i> , 2018 , 173, 429-436	6.8	12
126	Functional 1,8-Naphthalimide AIE/AIEEgens: Recent Advances and Prospects. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12081-12111	9.5	151
125	Effect of Substrate Temperature on Twin Donor Layer Organic Solar Cell. <i>Materials Today: Proceedings</i> , 2018 , 5, 23450-23455	1.4	
124	Battery Charging of Smart Phones using Organic Solar Cells 2018 ,		1
123	Blocking Oligomeric Insulin Amyloid Fibrillation via Perylenebisimides Containing Dipeptide Tentacles. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 4076-4083	5.5	7
122	Impact of Specifically Shaped Plasmonic Gold Nanoparticles and a Double Cathode Interfacial Layer on the Performance of Conducting Polymer-Based Photovoltaics. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5646-5654	5.6	5
121	An efficient strategy to assemble water soluble histidine-erythrin diimide and graphene oxide for the detection of PPI in physiological conditions and in vitro. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 636-644	11.8	25
120	Electroluminescent room temperature columnar liquid crystals based on bay-annulated perylene tetraesters. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1767-1781	7.1	38
119	Conjugated Polyelectrolyte Based Sensitive Detection and Removal of Antibiotics Tetracycline from Water. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4433-4439	9.5	70
118	Direct arylation polymerization approach for the synthesis of narrow band gap cyclopentadithiophene based conjugated polymer and its application in solar cell devices. <i>Synthetic Metals</i> , 2017 , 226, 56-61	3.6	6
117	Solution Processed WPLEDs with Good Color Stability and High Color Rendering Index via a Phosphor-Sensitized System. <i>ChemistrySelect</i> , 2017 , 2, 3184-3190	1.8	3
116	Pendant chain engineering to fine-tune the nanomorphologies and solid state luminescence of naphthalimide AIEEgens: application to phenolic nitro-explosive detection in water. <i>Nanoscale</i> , 2017 , 9, 7674-7685	7.7	34
115	Effects of Dielectric Material, HMDS Layer, and Channel Length on the Performance of the Perylenediimide-Based Organic Field-Effect Transistors. <i>ACS Omega</i> , 2017 , 2, 2552-2560	3.9	10
114	Combined influence of plasmonic metal nanoparticles and dual cathode buffer layers for highly efficient rrP3HT:PCBM-based bulk heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6578-6587	7.1	11
113	High-Performance ZnPc Thin Film-Based Photosensitive Organic Field-Effect Transistors: Influence of Multilayer Dielectric Systems and Thin Film Growth Structure. <i>ACS Omega</i> , 2017 , 2, 1241-1248	3.9	9
112	Influence of molar mass ratio, annealing temperature and cathode buffer layer on power conversion efficiency of P3HT:PC71BM based organic bulk heterojunction solar cell. <i>Organic Electronics</i> , 2017 , 51, 428-434	3.5	8
111	Development of Well-Preserved, Substrate-Versatile Latent Fingerprints by Aggregation-Induced Enhanced Emission-Active Conjugated Polyelectrolyte. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37501-37508	9.5	45

110	Effect of fluorine substitution and position on phenylene spacer in carbazole based organic sensitizers for dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28579-28587	3.6	12
109	Multifunctional (3-in-1) cancer theranostics applications of hydroxyquinoline-appended polyfluorene nanoparticles. <i>Chemical Science</i> , 2017 , 8, 7566-7575	9.4	21
108	Color Tunable Donor-Acceptor Electroluminescent Copolymers: Synthesis, Characterization, Photophysical Properties and PLED Fabrication. <i>ChemistrySelect</i> , 2017 , 2, 7044-7049	1.8	2
107	Bridge-driven aggregation control in dibenzofulvene- β -phthalimide based donor-bridge-acceptor systems: enabling fluorescence enhancement, blue to red emission and solvatochromism. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2590-2598	7.8	17
106	Efficient and Rapid Removal of Environmental Malignant Arsenic(III) and Industrial Dyes Using Reusable, Recoverable Ternary Iron Oxide - ORMOSIL - Reduced Graphene Oxide Composite. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5912-5921	8.3	28
105	Twisted donor substituted simple thiophene dyes retard the dye aggregation and charge recombination in dye-sensitized solar cells. <i>Organic Electronics</i> , 2017 , 50, 25-32	3.5	12
104	Effect of graphitization temperature on structure and electrical conductivity of poly-acrylonitrile based carbon fibers. <i>Diamond and Related Materials</i> , 2017 , 78, 31-38	3.5	22
103	Fluorescence "Turn-On" Indicator Displacement Assay-Based Sensing of Nitroexplosive 2,4,6-Trinitrophenol in Aqueous Media via a Polyelectrolyte and Dye Complex. <i>ACS Omega</i> , 2017 , 2, 4424-4430 ²⁰	3.9	20
102	Saturated and Stable White Electroluminescence from Linear Single Polymer Systems Based on Polyfluorene and Mono-Substituted Dibenzofulvene Derivatives. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18137-18143	3.8	9
101	Design, synthesis and DSSC performance of o-fluorine substituted phenylene spacer sensitizers: effect of TiO thickness variation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28485-28491	3.6	17
100	Low voltage, low cost, flexible and balanced ambipolar OFETs based on Br ₂ PTCDI-C18/CuPc fabricated on an Al foil gate substrate with good ambient stability. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7102-7109	7.1	19
99	Amplified Fluorescence from Polyfluorene Nanoparticles with Dual State Emission and Aggregation Caused Red Shifted Emission for Live Cell Imaging and Cancer Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32220-32229	9.5	39
98	Photosensitive organic field effect transistors: the influence of ZnPc morphology and bilayer dielectrics for achieving a low operating voltage and low bias stress effect. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32602-32609	3.6	12
97	Influence of m-fluorine substituted phenylene spacer dyes in dye-sensitized solar cells. <i>Organic Electronics</i> , 2016 , 39, 371-379	3.5	16
96	Monosubstituted Dibenzofulvene-Based Luminogens: Aggregation-Induced Emission Enhancement and Dual-State Emission. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26556-26568	3.8	38
95	FRET-assisted selective detection of flavins via cationic conjugated polyelectrolyte under physiological conditions. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4439-4446	7.3	12
94	Aggregation-Induced FRET via Polymer-Surfactant Complexation: A New Strategy for the Detection of Spermine. <i>Analytical Chemistry</i> , 2016 , 88, 7358-64	7.8	42
93	High Performance, Low Operating Voltage n-Type Organic Field Effect Transistor Based on Inorganic-Organic Bilayer Dielectric System. <i>Journal of Physics: Conference Series</i> , 2016 , 704, 012017	0.3	2

92	Efficient blue and white polymer light emitting diodes based on a well charge balanced, core modified polyfluorene derivative. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7389-94	3.6	20
91	Non-isothermal crystallization kinetics of sucrose palmitate reinforced poly(lactic acid) bionanocomposites. <i>Polymer Bulletin</i> , 2016 , 73, 21-38	2.4	9
90	Organic field-effect transistors as high performance humidity sensors with rapid response, recovery time and remarkable ambient stability. <i>Organic Electronics</i> , 2016 , 32, 169-178	3.5	23
89	Influence of emissive layer thickness on electrical characteristics of polyfluorene copolymer based polymer light emitting diodes. <i>Journal of Physics: Conference Series</i> , 2016 , 704, 012016	0.3	
88	White polymer light emitting diodes based on PVK: the effect of the electron injection barrier on transport properties, electroluminescence and controlling the electroplex formation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 33077-33084	3.6	17
87	The effect of inorganic/organic dual dielectric layers on the morphology and performance of n-channel OFETs. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12163-8	3.6	12
86	Modulation of Amyloid Aggregates into Nontoxic Coaggregates by Hydroxyquinoline Appended Polyfluorene. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13309-19	9.5	16
85	Effect of Dual Cathode Buffer Layer on the Charge Carrier Dynamics of rrP3HT:PCBM Based Bulk Heterojunction Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10904-10	9.5	21
84	Anion-Exchange Induced Strong π - π Interactions in Single Crystalline Naphthalene Diimide for Nitroexplosive Sensing: An Electronic Prototype for Visual on-Site Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25326-36	9.5	28
83	Inner Filter Effect Based Selective Detection of Nitroexplosive-Picric Acid in Aqueous Solution and Solid Support Using Conjugated Polymer. <i>ACS Sensors</i> , 2016 , 1, 1070-1077	9.2	113
82	Aggregation induced emission enhancement and growth of naphthalimide nanoribbons via J-aggregation: insight into disaggregation induced unfolding and detection of ferritin at the nanomolar level. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6023-6031	7.3	37
81	Aggregation deaggregation influenced selective and sensitive detection of Cu ²⁺ and ATP by histidine functionalized water-soluble fluorescent perylene diimide under physiological conditions and in living cells. <i>RSC Advances</i> , 2015 , 5, 28211-28218	3.7	31
80	One-pot synthesis of functionalized 4-hydroxy-3-thiomethylcoumarins: detection and discrimination of Co ²⁺ and Ni ²⁺ ions. <i>RSC Advances</i> , 2015 , 5, 57749-57756	3.7	10
79	An anionic conjugated polymer as a multi-action sensor for the sensitive detection of Cu(2+) and PPI, real-time ALP assaying and cell imaging. <i>Analyst, The</i> , 2015 , 140, 4388-92	5	32
78	Ultrasensitive detection of nitroexplosive - picric acid via a conjugated polyelectrolyte in aqueous media and solid support. <i>Chemical Communications</i> , 2015 , 51, 7207-10	5.8	105
77	Multiple function fluorescein probe performs metal chelation, disaggregation, and modulation of aggregated A β and A β Cu complex. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 1880-91	5.7	30
76	Vapor phase sensing of ammonia at the sub-ppm level using a perylene diimide thin film device. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10767-10774	7.1	55
75	Synthesis and characterization of color tunable, highly electroluminescent copolymers of polyfluorene by incorporating the N-phenyl-1,8-naphthalimide moiety into the main chain. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9318-9326	7.1	20

74	Influence of graphene on thermal degradation and crystallization kinetics behaviour of poly(lactic acid). <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	25
73	Improved molecular architecture of D _A carbazole dyes: 9% PCE with a cobalt redox shuttle in dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21664-21671	13	75
72	Modulation of Amyloid- β Fibrils into Mature Microrod-Shaped Structure by Histidine Functionalized Water-Soluble Perylene Diimide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21226-34	9.5	12
71	Conjugated Polymer Nanoparticles for the Amplified Detection of Nitro-explosive Picric Acid on Multiple Platforms. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26968-76	9.5	93
70	Large-Scale Molecular Packing and Morphology-Dependent High Performance Organic Field-Effect Transistor by Symmetrical Naphthalene Diimide Appended with Methyl Cyclohexane. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12772-12779	3.8	18
69	Organic Semiconductors: A New Future of Nanodevices and Applications 2015 , 97-128		4
68	Selective detection of resorcinol using a bis(benzothiazol-2-yl)pyridine based ditopic receptor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 263-267	8.5	8
67	Enhanced environmental stability induced by effective polarization of a polar dielectric layer in a trilayer dielectric system of organic field-effect transistors: a quantitative study. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1915-24	9.5	43
66	Highly precise detection, discrimination, and removal of anionic surfactants over the full pH range via cationic conjugated polymer: an efficient strategy to facilitate illicit-drug analysis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3189-98	9.5	30
65	Photo stability enhancement of Poly(3-hexylthiophene)-PCBM nanocomposites by addition of multi walled carbon nanotubes under ambient conditions. <i>Organic Electronics</i> , 2014 , 15, 1650-1656	3.5	12
64	Synthesis of unsymmetrical sulfides catalyzed by n-tetrabutyl-ammonium tribromide: A selective fluorescence probe for mercury ion. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 509-514	8.5	8
63	Effect of thickness of bilayer dielectric on 1,7-dibromo-N,N'-dioctadecyl -3,4,9,10-perylenetetracarboxylic diimide based organic field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2403-2411	1.6	6
62	Highly efficient and facile alkylation of 4H-cyclopenta-[2,1-b:3,4-b']dithiophene in water. <i>RSC Advances</i> , 2014 , 4, 37738-37745	3.7	3
61	Highly selective probe detects Cu ²⁺ and endogenous NO gas in living cell. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6562-9	9.5	66
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