

Parameswar Krishnan Iyer

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papers

4,757
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h-index

58
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218
ext. papers

5,560
ext. citations

5.6
avg. IF

6.3
L-index

#	Paper	IF	Citations
199	Stabilized Blue Emission from Polyfluorene-Based Light-Emitting Diodes: Elimination of Fluorenone Defects. <i>Advanced Functional Materials</i> , 2003 , 13, 325-330	15.6	316
198	Water/Methanol-Soluble Conjugated Copolymer as an Electron-Transport Layer in Polymer Light-Emitting Diodes. <i>Advanced Materials</i> , 2005 , 17, 274-277	24	260
197	Functional 1,8-Naphthalimide AIE/AIEEgens: Recent Advances and Prospects. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12081-12111	9.5	151
196	Diameter dependence of interwall separation and strain in multiwalled carbon nanotubes probed by X-ray diffraction and Raman scattering studies. <i>Diamond and Related Materials</i> , 2010 , 19, 1281-1288	3.5	121
195	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
194	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
193	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
192	Synthesis and optical properties of metallo-supramolecular polymers. <i>Chemical Communications</i> , 2005 , 319-21	5.8	91
191	Aqueous polyfluorene probe for the detection and estimation of Fe ³⁺ and inorganic phosphate in blood serum. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2502-2507		88
190	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
189	Improved molecular architecture of D π 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
188	Thiazole-containing conjugated polymer as a visual and fluorometric sensor for iodide and mercury. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2234-40	9.5	75
187	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
186	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
185	Diameter dependence of oxidative stability in multiwalled carbon nanotubes: Role of defects and effect of vacuum annealing. <i>Journal of Applied Physics</i> , 2010 , 108, 084313	2.5	59
184	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
183	Role of molecular interactions and structural defects in the efficient fluorescence quenching by carbon nanotubes. <i>Carbon</i> , 2012 , 50, 4495-4505	10.4	54

182	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
181	A Highly Potential Analogue of Jacobsen Catalyst with In-built Phase Transfer Capability in Enantioselective Epoxidation of Nonfunctionalized Alkenes. <i>Journal of Catalysis</i> , 2002 , 209, 99-104	7.3	53
180	Photoluminescence Quenching of Poly(3-hexylthiophene) by Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8196-8201	3.8	51
179	2,6-Bis(2-benzimidazolyl)pyridine as a chemosensor for fluoride ions. <i>Tetrahedron Letters</i> , 2008 , 49, 94-97	4.7	48
178	Synthesis and Properties of Metallo-Supramolecular Poly(p-xylylene)s. <i>Macromolecules</i> , 2006 , 39, 4069-4075	4.7	47
177	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
176	A Remarkable Superquenching and Superdequenching Sensor for the Selective and Noninvasive Detection of Inorganic Phosphates in Saliva. <i>Macromolecules</i> , 2011 , 44, 3753-3758	5.5	46
175	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
174	Chiral Ru(II) Schiff base complex-catalysed enantioselective epoxidation of styrene derivatives using iodosyl benzene as oxidant. II. <i>Journal of Molecular Catalysis A</i> , 1999 , 150, 175-183		45
173	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
172	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
171	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
170	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
169	Improved Performance of Solution-Processed n-Type Organic Field-Effect Transistors by Regulating the Intermolecular Interactions and Crystalline Domains on Macroscopic Scale. <i>Chemistry of Materials</i> , 2014 , 26, 4030-4037	9.6	39
168	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
167	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
166	Enhancing the photostability of poly(3-hexylthiophene) by preparing composites with multiwalled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 919-24	3.4	37
165	Facile C-H alkylation in water: enabling defect-free materials for optoelectronic devices. <i>Journal of Organic Chemistry</i> , 2010 , 75, 2714-7	4.2	37

164	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
163	Development of solution, film and membrane based fluorescent sensor for the detection of fluoride anions from water. <i>Analytical Methods</i> , 2012 , 4, 3180	3.2	35
162	Synthesis, physicochemical studies and aerobic enantioselective epoxidation of non functionalized olefins catalyzed by new Co(II) chiral salen complexes. <i>Journal of Molecular Catalysis A</i> , 1997 , 121, 25-31		35
161	Pendant chain engineering to fine-tune the nanomorphologies and solid state luminescence of naphthalimide AIEgens: application to phenolic nitro-explosive detection in water. <i>Nanoscale</i> , 2017 , 9, 7674-7685	7.7	34
160	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
159	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
158	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
157	2,6-Bis(2-benzimidazolyl)pyridine receptor for urea recognition. <i>Tetrahedron Letters</i> , 2006 , 47, 8115-8117		32
156	Chiral Ni(II) Schiff base complex-catalysed enantioselective epoxidation of prochiral non-functionalised alkenes. <i>Journal of Molecular Catalysis A</i> , 2000 , 160, 217-227		32
155	"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
154	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
153	Multiple function fluorescein probe performs metal chelation, disaggregation, and modulation of aggregated Al ³⁺ and Ag ⁺ complex. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 1880-91	5.7	30
152	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
151	Effect of Organomodified Ni-Al Layered Double Hydroxide (LDH) on the Properties of Polypropylene (PP)/LDH Nanocomposites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012 , 61, 931-948	3	29
150	Enantioselective catalytic epoxidation of nonfunctionalized prochiral olefins by dissymmetric chiral Schiff base complexes of Mn(III) and Ru(III) metal ions II. <i>Journal of Molecular Catalysis A</i> , 1997 , 120, 101-108		29
149	Structure and chemistry of N-substituted corroles and their rhodium(I) and zinc(II) metal-ion complexes. <i>Chemistry - A European Journal</i> , 2002 , 8, 2595-601	4.8	29
148	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
147	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

146	Chiral Ru(III) metal complex-catalyzed aerobic enantioselective epoxidation of styrene derivatives with co-oxidation of aldehyde. <i>Journal of Molecular Catalysis A</i> , 1997 , 124, 91-97		27
145	A rapid and sensitive detection of ferritin at a nanomolar level and disruption of amyloid [fibrils using fluorescent conjugated polymer. <i>Polymer Chemistry</i> , 2013 , 4, 5096	4.9	26
144	A physical insight into sonochemical emulsion polymerization with cavitation bubble dynamics. <i>Polymer</i> , 2008 , 49, 1910-1925	3.9	26
143	An efficient strategy to assemble water soluble histidine-peryene 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
142	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
141	Enantioselective epoxidation of chromenes using chiral Mn(III) salen catalysts with built-in phase-transfer capability. <i>Tetrahedron Letters</i> , 2002 , 43, 2665-2668	2	25
140	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
139	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
138	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
137	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
136	Sensitive detection of acid phosphatase enzyme and screening of inhibitors using an anionic polyfluorene derivative. <i>Analytical Methods</i> , 2013 , 5, 2374	3.2	22
135	Heteroatom Bay-Annulated Perylene Bisimides: New Materials for Organic Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1378-1386	4	21
134	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
133	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
132	Multifunctional (3-in-1) cancer theranostics applications of hydroxyquinoline-appended polyfluorene nanoparticles. <i>Chemical Science</i> , 2017 , 8, 7566-7575	9.4	21
131	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
130	Wearable Sensing Devices for Point of Care Diagnostics.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 47-70	4.1	21
129	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

128	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
127	High-performance n-channel organic thin-film transistor based on naphthalene diimide. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12295-301	9.5	20
126	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	2.9	20
125	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
124	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
123	A fluorescence turn on trypsin assay based on aqueous polyfluorene. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4005-4010	7.3	19
122	Evidence for Defect-Enhanced Photoluminescence Quenching of Fluorescein by Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24067-24072	3.8	19
121	Aerobic, enantioselective epoxidation of non-functionalized olefins catalyzed by Ni(II) chiral Schiff base complexes. <i>Journal of Molecular Catalysis A</i> , 1998 , 130, 41-50		19
120	Chiral Mn(III) Schiff base complex catalyzed aerobic enantioselective epoxidation of prochiral non-functionalized olefins. <i>Polyhedron</i> , 1999 , 18, 1773-1777	2.7	19
119	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
118	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
117	Imidazole derivatives as the organic precursor of ZnO nano particle. <i>Tetrahedron Letters</i> , 2010 , 51, 2751-2753		18
116	Synthesis, physico-chemical studies and solvent-dependent enantioselective epoxidation of 1,2-dihydronaphthalene catalysed by chiral Ruthenium(II) Schiff base complexes. I. <i>Journal of Molecular Catalysis A</i> , 1999 , 150, 163-173		18
115	Stepwise elucidation of fluorescence based sensing mechanisms considering picric acid as a model analyte. <i>Analyst, The</i> , 2020 , 145, 4753-4767	5	17
114	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
113	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
112	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
111	Bridge-driven aggregation control in dibenzofulvene- β -naphthalimide 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

110	Utilization of 2,6-bis(2-benzimidazolyl)pyridine to detect toxic benzene metabolites. <i>Tetrahedron Letters</i> , 2007 , 48, 47-50	2	17
109	Ruthenium monoterpyridine complexes with 2,6-bis(benzimidazol-2-yl)pyridine: Synthesis, spectral properties and structure. <i>Polyhedron</i> , 2008 , 27, 1983-1988	2.7	17
108	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
107	Influence of m-fluorine substituted phenylene spacer dyes in dye-sensitized solar cells. <i>Organic Electronics</i> , 2016 , 39, 371-379	3.5	16
106	Interaction of heme proteins with anionic polyfluorene: insights into physiological effects, folding events, and inhibition activity. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6371-7	9.5	16
105	Modulation of Amyloid Aggregates into Nontoxic Coaggregates by Hydroxyquinoline Appended Polyfluorene. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13309-19	9.5	16
104	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
103	Optical signature of structural defects in single walled and multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5396-401	1.3	15
102	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
101	IMPROVED CHEMICAL SYNTHESIS OF GRAPHENE USING A SAFER SOLVOTHERMAL ROUTE. <i>International Journal of Nanoscience</i> , 2011 , 10, 39-42	0.6	14
100	Conjugated Polyelectrolyte-Passivated Stable Perovskite Solar Cells for Efficiency Beyond 20%. <i>Chemistry of Materials</i> , 2021 , 33, 5709-5717	9.6	14
99	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
98	Selective fluoride anion sensing by simple benzimidazolyl based ligand. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 191-195	8.5	13
97	Therapeutic strategies to prevent Alzheimer's disease pathogenesis using a fluorescent conjugated polyelectrolyte. <i>Macromolecular Bioscience</i> , 2014 , 14, 508-14	5.5	13
96	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
95	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
94	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
93	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

92	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
91	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
90	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
89	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
88	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
87	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
86	High-yield chemical synthesis of hexagonal ZnO nanoparticles and nanorods with excellent optical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 201-6	1.3	12
85	Synthesis and Study of CdS Nanoparticle-Doped Poly(1,4-dihexyloxybenzene). <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 417-423	2.6	12
84	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
83	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
82	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
81	First Example of White Organic Electroluminescence Utilizing Perylene Ester Imides. <i>ChemistrySelect</i> , 2018 , 3, 5123-5129	1.8	11
80	Distinguishing defect induced intermediate frequency modes from combination modes in the Raman spectrum of single walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2012 , 111, 064304	2.5	11
79	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
78	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
77	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
76	Synthesis and Characterization of Soluble Poly(p-phenylene) Derivatives for PLED Applications. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 2153-2159	2.6	10
75	Exploring the semiconductor properties of a charge transfer cocrystal of 1-aminopyrene and TCNQ. <i>CrystEngComm</i> , 2020 , 22, 720-727	3.3	10

74	Dual Static and Dynamic Fluorescence Quenching Mechanisms Based Detection of TNT via a Cationic Conjugated Polymer. <i>ACS Measurement Science Au</i> ,		10
73	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
72	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
71	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
70	Non-isothermal crystallization kinetics of sucrose palmitate reinforced poly(lactic acid) bionanocomposites. <i>Polymer Bulletin</i> , 2016 , 73, 21-38	2.4	9
69	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
68	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
67	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
66	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
65	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
64	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
63	Acetate recognition by 2,6-bis(2-benzimidazolyl)pyridine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 81, 313-6	4.4	8
62	Surface recrystallized stable 2DBD graded perovskite solar cells for efficiency beyond 21%. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26069-26076	13	8
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1 Smart Luminogens for the Detection of Organic Volatile Contaminants **2022**, 491-509