

Byeong-Kwan An

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54
papers

5,612
citations

28
h-index

55
g-index

55
ext. papers

5,951
ext. citations

9.1
avg. IF

5.48
L-index

#	Paper	IF	Citations
54	Enhanced emission and its switching in fluorescent organic nanoparticles. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14410-5	16.4	1656
53	Conjugated cyanostilbene derivatives: a unique self-assembly motif for molecular nanostructures with enhanced emission and transport. <i>Accounts of Chemical Research</i> , 2012 , 45, 544-54	24.3	563
52	Strongly fluorescent organogel system comprising fibrillar self-assembly of a trifluoromethyl-based cyanostilbene derivative. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10232-3	16.4	540
51	Photoswitchable organic nanoparticles and a polymer film employing multifunctional molecules with enhanced fluorescence emission and bistable photochromism. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6346-50	16.4	445
50	Shear- and UV-induced fluorescence switching in stilbenic pi-dimer crystals powered by reversible [2 + 2] cycloaddition. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8163-72	16.4	259
49	Tailor-made highly luminescent and ambipolar transporting organic mixed stacked charge-transfer crystals: an isometric donor-acceptor approach. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4757-64	16.4	243
48	Color-tuned highly fluorescent organic nanowires/nanofabrics: easy massive fabrication and molecular structural origin. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3950-7	16.4	220
47	Dual-mode switching in highly fluorescent organogels: binary logic gates with optical/thermal inputs. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7030-4	16.4	151
46	A Thermoreversible and Proton-Induced Gel/Sol Phase Transition with Remarkable Fluorescence Variation. <i>Chemistry of Materials</i> , 2008 , 20, 6750-6755	9.6	131
45	Photopatterned arrays of fluorescent organic nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1978-82	16.4	123
44	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 203-7	16.4	119
43	High-Contrast On/Off Fluorescence Switching via Reversible E/Z Isomerization of Diphenylstilbene Containing the Cyanostilbenic Moiety. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11285-11291	3.8	112
42	Bistable Photoswitching in the Film of Fluorescent Photochromic Polymer: Enhanced Fluorescence Emission and Its High Contrast Switching. <i>Macromolecules</i> , 2005 , 38, 6236-6239	5.5	111
41	High-performance n-type organic semiconductors: incorporating specific electron-withdrawing motifs to achieve tight molecular stacking and optimized energy levels. <i>Advanced Materials</i> , 2012 , 24, 911-5	24	74
40	New Type II Catechol-Thiophene Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17964-17974	3.8	73
39	Triptycene-based quinone molecules showing multi-electron redox reactions for large capacity and high energy organic cathode materials in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3134-3140	13.1	57
38	Remarkable mobility increase and threshold voltage reduction in organic field-effect transistors by overlaying discontinuous nano-patches of charge-transfer doping layer on top of semiconducting film. <i>Advanced Materials</i> , 2013 , 25, 719-24	24	56

37	Photoswitchable Organic Nanoparticles and a Polymer Film Employing Multifunctional Molecules with Enhanced Fluorescence Emission and Bistable Photochromism. <i>Angewandte Chemie</i> , 2004 , 116, 6506-6510	3.6	56
36	Efficient and Bright Blue Electroluminescence of Poly[4,4'-biphenylene- <i>q</i> - <i>q</i> '-dihexyl-3-fluorenyl]vinylene]. <i>Macromolecules</i> , 2001 , 34, 3993-3997	5.5	54
35	All-organic coaxial nanocables with interfacial charge-transfer layers: electrical conductivity and light-emitting-transistor behavior. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1062-1064		51
34	High-Performance n-Type Organic Transistor with a Solution-Processed and Exfoliation-Transferred Two-Dimensional Crystalline Layered Film. <i>Chemistry of Materials</i> , 2012 , 24, 3263-3268	9.6	47
33	Single-crystalline organic nanowires with large mobility and strong fluorescence emission: a conductive-AFM and space-charge-limited-current study. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5920		40
32	Dual-Mode Switching in Highly Fluorescent Organogels: Binary Logic Gates with Optical/Thermal Inputs. <i>Angewandte Chemie</i> , 2009 , 121, 7164-7168	3.6	38
31	Recent progress in the use of fluorescent and phosphorescent organic compounds for organic light-emitting diode lighting. <i>Journal of Photonics for Energy</i> , 2015 , 5, 057608	1.2	35
30	Ruthenium complex-cored dendrimers: Shedding light on efficiency trade-offs in dye-sensitised solar cells. <i>Organic Electronics</i> , 2009 , 10, 1356-1363	3.5	34
29	Self-assembled perpendicular growth of organic nanoneedles via simple vapor-phase deposition: one-step fabrication of a superhydrophobic surface. <i>Chemical Communications</i> , 2008 , 2998-3000	5.8	34
28	Fabrication of a patterned assembly of semiconducting organic nanowires. <i>Small</i> , 2009 , 5, 804-7	11	33
27	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. <i>Angewandte Chemie</i> , 2016 , 128, 211-215	3.6	32
26	Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors. <i>Advanced Functional Materials</i> , 2014 , 24, 2746-2753	15.6	27
25	High performance n-type organic transistors based on a distyrylthiophene derivative. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10103		24
24	A Modified Strategy for the Synthesis of Hyperbranched Poly(p-phenylenevinylene): Achieving Extended Conjugation with Growing Molecular Weight. <i>Macromolecules</i> , 2006 , 39, 9-11	5.5	24
23	Coordination Polymers for High-Capacity Li-Ion Batteries: Metal-Dependent Solid-State Reversibility. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22110-22118	9.5	22
22	Selected-area in situ generation of highly fluorescent organic nanowires embedded in a polymer film: the solvent-vapor-induced self-assembly process. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7715		19
21	Enhancing the Properties of Ruthenium Dyes by Dendronization. <i>Chemistry of Materials</i> , 2009 , 21, 3315-3324	3.2	15
20	Photopatterned Arrays of Fluorescent Organic Nanoparticles. <i>Angewandte Chemie</i> , 2007 , 119, 2024-2028	3.6	15

19	Hyperbranched polyester copolymers for thermal printing papers: The effects of alkyl chain units in the polymer backbone on developing capability. <i>Polymer</i> , 2015 , 78, 193-201	3.9	12
18	An exotic band structure of a supramolecular honeycomb lattice formed by a pancake π - π interaction between triradical trianions of triptycene tribenzoquinone. <i>Chemical Communications</i> , 2018 , 54, 3815-3818	5.8	10
17	Tunnelling conductance of vectorial porphyrin monolayers. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3109		10
16	Synthesis and Developing Properties of Functional Phenolic Polymers for Ecofriendly Thermal Papers. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 540-547	3.9	8
15	Recent Progress on Organic Emitters for Organic Light Emitting Diode Lightings. <i>Applied Chemistry for Engineering</i> , 2016 , 27, 455-466		8
14	Fluoride sensing by catechol-based π -electron systems. <i>ChemPhysChem</i> , 2010 , 11, 3517-21	3.2	7
13	Hyperbranched Poly(aryl ester)s as Developer Materials for Thermal Printing System. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 1225-1231	1.2	6
12	Electrochemical and optical characterization of cobalt, copper and zinc phthalocyanine complexes. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4338-41	1.3	4
11	Distributed Feedback Waveguide Laser of Organic Nano-compound Material. <i>Molecular Crystals and Liquid Crystals</i> , 2007 , 463, 173/[455]-183/[465]	0.5	4
10	Organic Field-Effect Transistors: Remarkable Mobility Increase and Threshold Voltage Reduction in Organic Field-Effect Transistors by Overlaying Discontinuous Nano-Patches of Charge-Transfer Doping Layer on Top of Semiconducting Film (Adv. Mater. 5/2013). <i>Advanced Materials</i> , 2013 , 25, 646-646	2.4	3
9	ITIC derivative acceptors for ternary organic solar cells: fine-tuning of absorption bands, LUMO energy levels, and cascade charge transfer. <i>Sustainable Energy and Fuels</i> ,	5.8	3
8	Synthesis and characterization of titanium complex with a dithiolate ligand for green LCD color filter dyes. <i>Nanoscale Research Letters</i> , 2012 , 7, 635	5	2
7	High electroluminescence efficiency and long device lifetime of a fluorescent green-light emitter using aggregation-induced emission. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 87, 213-221	6.3	1
6	Emission: Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2745-2745	15.6	1
5	New Hole Transporting Materials Based on Tetraphenylbenzene and Aromatic Amine Derivatives for OLEDs. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 584, 69-77	0.5	0
4	Phenolic Polymer-Based Color Developers for Thermal Papers: Synthesis, Characterization, and Applications. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9456-9464	3.9	0
3	Practical synthesis of triptycene trisquinone. <i>Synthetic Communications</i> , 1-6	1.7	0
2	Adsorption Kinetic Study of Ruthenium Complex Dyes onto TiO ₂ Anodes for Dye-sensitized Solar Cells (DSSCs). <i>Journal of the Korean Institute of Electrical and Electronic Material Engineers</i> , 2011 , 24, 929-934		

- 1 Ecofriendly Multifunctional Monodisperse Spherical Polymer Colloids from Hyperbranched Poly(p-phenyl ester) Phenol. *ACS Applied Polymer Materials*, **2022**, 4, 2828-2840 43