Byeong-Kwan An

List of Publications by Year in Descending Order

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	Ecofriendly Multifunctional Monodisperse Spherical Polymer Colloids from Hyperbranched Poly(p-phenyl ester) Phenol. *ACS Applied Polymer Materials*, **2022**, 4, 2828-2840	4.3	
53	Phenolic Polymer-Based Color Developers for Thermal Papers: Synthesis, Characterization, and Applications. *Industrial & Engineering Chemistry Research*, **2021**, 60, 9456-9464	3.9	0
52	High electroluminescence efficiency and long device lifetime of a fluorescent green-light emitter using aggregation-induced emission. *Journal of Industrial and Engineering Chemistry*, **2020**, 87, 213-221	6.3	1
51	An exotic band structure of a supramolecular honeycomb lattice formed by a pancake □□ interaction between triradical trianions of triptycene tribenzoquinone. *Chemical Communications*, **2018**, 54, 3815-3818	5.8	10
50	Triptycene-based quinone molecules showing multi-electron redox reactions for large capacity and high energy organic cathode materials in Li-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 3134-3140	13	57
49	Synthesis and Developing Properties of Functional Phenolic Polymers for Ecofriendly Thermal Papers. *Industrial & Engineering Chemistry Research*, **2018**, 57, 540-547	3.9	8
48	Coordination Polymers for High-Capacity Li-Ion Batteries: Metal-Dependent Solid-State Reversibility. *ACS Applied Materials & Interfaces*, **2018**, 10, 22110-22118	9.5	22
47	Recent Progress on Organic Emitters for Organic Light Emitting Diode Lightings. *Applied Chemistry for Engineering*, **2016**, 27, 455-466		8
46	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor□Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. *Angewandte Chemie*, **2016**, 128, 211-215	3.6	32
45	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. *Angewandte Chemie - International Edition*, **2016**, 55, 203-7	16.4	119
44	Recent progress in the use of fluorescent and phosphorescent organic compounds for organic light-emitting diode lighting. *Journal of Photonics for Energy*, **2015**, 5, 057608	1.2	35
43	Hyperbranched polyester copolymers for thermal printing papers: The effects of alkyl chain units in the polymer backbone on developing capability. *Polymer*, **2015**, 78, 193-201	3.9	12
42	Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors. *Advanced Functional Materials*, **2014**, 24, 2746-2753	15.6	27
41	Emission: Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors (Adv. Funct. Mater. 19/2014). *Advanced Functional Materials*, **2014**, 24, 2745-2745	15.6	1
40	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. *Advanced Materials*, **2013**, 25, 719-24	24	56
39	Tailor-made highly luminescent and ambipolar transporting organic mixed stacked charge-transfer crystals: an isometric donor-acceptor approach. *Journal of the American Chemical Society*, **2013**, 135, 4757-64	16.4	243
38	High-Contrast On/Off Fluorescence Switching via Reversible E□ Isomerization of Diphenylstilbene Containing the □Cyanostilbenic Moiety. *Journal of Physical Chemistry C*, **2013**, 117, 11285-11291	3.8	112

37	New Hole Transporting Materials Based on Tetraphenylbenzene and Aromatic Amine Derivatives for OLEDs. *Molecular Crystals and Liquid Crystals*, **2013**, 584, 69-77	0.5	0
36	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). *Advanced Materials*, **2013**, 25, 646-646	24	3
35	Electrochemical and optical characterization of cobalt, copper and zinc phthalocyanine complexes. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 4338-41	1.3	4
34	Hyperbranched Poly(aryl ester)s as Developer Materials for Thermal Printing System. *Bulletin of the Korean Chemical Society*, **2013**, 34, 1225-1231	1.2	6
33	High-performance n-type organic semiconductors: incorporating specific electron-withdrawing motifs to achieve tight molecular stacking and optimized energy levels. *Advanced Materials*, **2012**, 24, 911-5	24	74
32	□Conjugated cyanostilbene derivatives: a unique self-assembly motif for molecular nanostructures with enhanced emission and transport. *Accounts of Chemical Research*, **2012**, 45, 544-54	24.3	563
31	High-Performance n-Type Organic Transistor with a Solution-Processed and Exfoliation-Transferred Two-Dimensional Crystalline Layered Film. *Chemistry of Materials*, **2012**, 24, 3263-3268	9.6	47
30	Synthesis and characterization of titanium complex with a dithiolate ligand for green LCD color filter dyes. *Nanoscale Research Letters*, **2012**, 7, 635	5	2
29	Adsorption Kinetic Study of Ruthenium Complex Dyes onto TiO2Anodes for Dye-sensitized Solar Cells (DSSCs). *Journal of the Korean Institute of Electrical and Electronic Material Engineers*, **2011**, 24, 929-934		
28	New Type II Catechol-Thiophene Sensitizers for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 17964-17974	3.8	73
27	Selected-area in situ generation of highly fluorescent organic nanowires embedded in a polymer film: the solvent-vapor-induced self-assembly process. *Journal of Materials Chemistry*, **2010**, 20, 7715		19
26	All-organic coaxial nanocables with interfacial charge-transfer layers: electrical conductivity and light-emitting-transistor behavior. *Journal of Materials Chemistry*, **2010**, 20, 1062-1064		51
25	High performance n-type organic transistors based on a distyrylthiophene derivative. *Journal of Materials Chemistry*, **2010**, 20, 10103		24
24	Fluoride sensing by catechol-based □electron systems. *ChemPhysChem*, **2010**, 11, 3517-21	3.2	7
23	Dual-Mode Switching in Highly Fluorescent Organogels: Binary Logic Gates with Optical/Thermal Inputs. *Angewandte Chemie*, **2009**, 121, 7164-7168	3.6	38
22	Dual-mode switching in highly fluorescent organogels: binary logic gates with optical/thermal inputs. *Angewandte Chemie - International Edition*, **2009**, 48, 7030-4	16.4	151
21	Fabrication of a patterned assembly of semiconducting organic nanowires. *Small*, **2009**, 5, 804-7	11	33
20	Ruthenium complex-cored dendrimers: Shedding light on efficiency trade-offs in dye-sensitised solar cells. *Organic Electronics*, **2009**, 10, 1356-1363	3.5	34

19	Color-tuned highly fluorescent organic nanowires/nanofabrics: easy massive fabrication and molecular structural origin. *Journal of the American Chemical Society*, **2009**, 131, 3950-7	16.4	220
18	Shear- and UV-induced fluorescence switching in stilbenic pi-dimer crystals powered by reversible [2 + 2] cycloaddition. *Journal of the American Chemical Society*, **2009**, 131, 8163-72	16.4	259
17	Single-crystalline organic nanowires with large mobility and strong fluorescence emission: a conductive-AFM and space-charge-limited-current study. *Journal of Materials Chemistry*, **2009**, 19, 5920		40
16	Enhancing the Properties of Ruthenium Dyes by Dendronization. *Chemistry of Materials*, **2009**, 21, 3315-3324	9.6	15
15	Self-assembled perpendicular growth of organic nanoneedles via simple vapor-phase deposition: one-step fabrication of a superhydrophobic surface. *Chemical Communications*, **2008**, 2998-3000	5.8	34
14	Tunnelling conductance of vectorial porphyrin monolayers. *Journal of Materials Chemistry*, **2008**, 18, 3109		10
13	A Thermoreversible and Proton-Induced Gel–Sol Phase Transition with Remarkable Fluorescence Variation. *Chemistry of Materials*, **2008**, 20, 6750-6755	9.6	131
12	Photopatterned arrays of fluorescent organic nanoparticles. *Angewandte Chemie - International Edition*, **2007**, 46, 1978-82	16.4	123
11	Photopatterned Arrays of Fluorescent Organic Nanoparticles. *Angewandte Chemie*, **2007**, 119, 2024-2028	3.6	15
10	Distributed Feedback Waveguide Laser of Organic Nano-compound Material. *Molecular Crystals and Liquid Crystals*, **2007**, 463, 173/[455]-183/[465]	0.5	4
9	A Modified Strategy for the Synthesis of Hyperbranched Poly(p-phenylenevinylene): Achieving Extended Conjugation with Growing Molecular Weight. *Macromolecules*, **2006**, 39, 9-11	5.5	24
8	Bistable Photoswitching in the Film of Fluorescent Photochromic Polymer: Enhanced Fluorescence Emission and Its High Contrast Switching. *Macromolecules*, **2005**, 38, 6236-6239	5.5	111
7	Strongly fluorescent organogel system comprising fibrillar self-assembly of a trifluoromethyl-based cyanostilbene derivative. *Journal of the American Chemical Society*, **2004**, 126, 10232-3	16.4	540
6	Photoswitchable organic nanoparticles and a polymer film employing multifunctional molecules with enhanced fluorescence emission and bistable photochromism. *Angewandte Chemie - International Edition*, **2004**, 43, 6346-50	16.4	445
5	Photoswitchable Organic Nanoparticles and a Polymer Film Employing Multifunctional Molecules with Enhanced Fluorescence Emission and Bistable Photochromism. *Angewandte Chemie*, **2004**, 116, 6506-6510	3.6	56
4	Enhanced emission and its switching in fluorescent organic nanoparticles. *Journal of the American Chemical Society*, **2002**, 124, 14410-5	16.4	1656
3	Efficient and Bright Blue Electroluminescence of Poly[4,4-biphenylene-(9,9-dihexyl-3-fluorenyl)vinylene]. *Macromolecules*, **2001**, 34, 3993-3997	5.5	54
2	ITIC derivative acceptors for ternary organic solar cells: fine-tuning of absorption bands, LUMO energy levels, and cascade charge transfer. *Sustainable Energy and Fuels*,	5.8	3

1	Practical synthesis of triptycene trisquinone. *Synthetic Communications*,1-6	1.7	0