

Byeong-Kwan An

List of Publications by Year in descending order

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51
papers

6,255
citations

172207

29
h-index

174990

52
g-index

55
all docs

55
docs citations

55
times ranked

6140
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Emission and Its Switching in Fluorescent Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2002, 124, 14410-14415.	6.6	1,826
2	π-Conjugated Cyanostilbene Derivatives: A Unique Self-Assembly Motif for Molecular Nanostructures with Enhanced Emission and Transport. <i>Accounts of Chemical Research</i> , 2012, 45, 544-554.	7.6	662
3	Strongly Fluorescent Organogel System Comprising Fibrillar Self-Assembly of a Trifluoromethyl-Based Cyanostilbene Derivative. <i>Journal of the American Chemical Society</i> , 2004, 126, 10232-10233.	6.6	567
4	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, 6346-6350.	7.2	472
5	Shear- and UV-Induced Fluorescence Switching in Stilbenic π-Dimer Crystals Powered by Reversible [2 + 2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2009, 131, 8163-8172.	6.6	308
6	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, 4757-4764.	6.6	288
7	Color-Tuned Highly Fluorescent Organic Nanowires/Nanofabrics: Easy Massive Fabrication and Molecular Structural Origin. <i>Journal of the American Chemical Society</i> , 2009, 131, 3950-3957.	6.6	232
8	Dual-Mode Switching in Highly Fluorescent Organogels: Binary Logic Gates with Optical/Thermal Inputs. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7030-7034.	7.2	161
9	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, 203-207.	7.2	147
10	A Thermoreversible and Proton-Induced Gel-Sol Phase Transition with Remarkable Fluorescence Variation. <i>Chemistry of Materials</i> , 2008, 20, 6750-6755.	3.2	138
11	High-Contrast On/Off Fluorescence Switching via Reversible E-Z Isomerization of Diphenylstilbene Containing the π-Cyanostilbenic Moiety. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11285-11291.	1.5	138
12	Photopatterned Arrays of Fluorescent Organic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1978-1982.	7.2	126
13	Bistable Photoswitching in the Film of Fluorescent Photochromic Polymer: Enhanced Fluorescence Emission and Its High Contrast Switching. <i>Macromolecules</i> , 2005, 38, 6236-6239.	2.2	123
14	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, 911-915.	11.1	89
15	New Type II Catechol-Thiophene Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17964-17974.	1.5	80
16	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.	5.2	80
17	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, 719-724.	11.1	59
18	Efficient and Bright Blue Electroluminescence of Poly[4,4'-biphenylene-1,1'-(9,9'-diarylethynyl)-dihexyl-3-fluorenyl]vinylene]. <i>Macromolecules</i> , 2001, 34, 3993-3997.	2.2	58

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19	High-Performance <i>n</i> -Type Organic Transistor with a Solution-Processed and Exfoliation-Transferred Two-Dimensional Crystalline Layered Film. <i>Chemistry of Materials</i> , 2012, 24, 3263-3268.	3.2	57
20	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.	6.7	52
21	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.	0.8	44
22	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.	6.7	43
23	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.	2.2	35
24	Fabrication of a Patterned Assembly of Semiconducting Organic Nanowires. <i>Small</i> , 2009, 5, 804-807.	5.2	34
25	Ruthenium complex-cored dendrimers: Shedding light on efficiency trade-offs in dye-sensitised solar cells. <i>Organic Electronics</i> , 2009, 10, 1356-1363.	1.4	34
26	Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(<i>N</i> -vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors. <i>Advanced Functional Materials</i> , 2014, 24, 2746-2753.	7.8	31
27	Coordination Polymers for High-Capacity Li-Ion Batteries: Metal-Dependent Solid-State Reversibility. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22110-22118.	4.0	31
28	A Modified Strategy for the Synthesis of Hyperbranched Poly(<i>p</i> -phenylenevinylene): Achieving Extended π -Conjugation with Growing Molecular Weight. <i>Macromolecules</i> , 2006, 39, 9-11.	2.2	27
29	High performance <i>n</i> -type organic transistors based on a distyrylthiophene derivative. <i>Journal of Materials Chemistry</i> , 2010, 20, 10103.	6.7	26
30	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.	6.7	20
31	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.	2.2	20
32	Enhancing the Properties of Ruthenium Dyes by Dendronization. <i>Chemistry of Materials</i> , 2009, 21, 3315-3324.	3.2	16
33	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.	1.8	13
34	Tunnelling conductance of vectorial porphyrin monolayers. <i>Journal of Materials Chemistry</i> , 2008, 18, 3109.	6.7	12
35	Synthesis and Developing Properties of Functional Phenolic Polymers for Ecofriendly Thermal Papers. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 540-547.	1.8	9
36	Hyperbranched Poly(aryl ester)s as Developer Materials for Thermal Printing System. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 1225-1231.	1.0	9

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37	Fluoride Sensing by Catechol-Based Electrode Systems. <i>ChemPhysChem</i> , 2010, 11, 3517-3521.	1.0	8
38	Recent Progress on Organic Emitters for Organic Light Emitting Diode Lightings. <i>Applied Chemistry for Engineering</i> , 2016, 27, 455-466.	0.2	8
39	Distributed Feedback Waveguide Laser of Organic Nano-compound Material. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 463, 173/[455]-183/[465].	0.4	4
40	Electrochemical and Optical Characterization of Cobalt, Copper and Zinc Phthalocyanine Complexes. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4338-4341.	0.9	4
41	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> , 2021, 6, 110-120.	2.5	4
42	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.	11.1	3
43	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.	2.9	3
44	Phenolic Polymer-Based Color Developers for Thermal Papers: Synthesis, Characterization, and Applications. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9456-9464.	1.8	3
45	Synthesis and characterization of titanium complex with a dithiolate ligand for green LCD color filter dyes. <i>Nanoscale Research Letters</i> , 2012, 7, 635.	3.1	2
46	New Hole Transporting Materials Based on Tetraphenylbenzene and Aromatic Amine Derivatives for OLEDs. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 584, 69-77.	0.4	1
47	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.	7.8	1
48	Practical synthesis of triptycene trisquinone. <i>Synthetic Communications</i> , 2022, 52, 1184-1189.	1.1	1
49	Dendrimers for photon harvesting in organic and organic/inorganic hybrid solar cells. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
50	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.	0.0	0
51	Ecofriendly Multifunctional Monodisperse Spherical Polymer Colloids from Hyperbranched Poly(<i>p</i> -phenyl ester) Phenol. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2828-2840.	2.0	0