Eung-Gun Kim

List of Publications by Year
in descending order

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31 papers	2,471 citations	361413 20 h-index	454955 30 g-index
31 all docs	31 docs citations	31 times ranked	4097 citing authors

#	Article	IF	Citations
1	Transport Properties in the Rubrene Crystal: Electronic Coupling and Vibrational Reorganization Energy. Advanced Materials, 2005, 17, 1072-1076.	21.0	409
2	Tuning the Charge-Transport Parameters of Perylene Diimide Single Crystals via End and/or Core Functionalization: A Density Functional Theory Investigation. Journal of the American Chemical Society, 2010, 132, 3375-3387.	13.7	320
3	Prediction of Remarkable Ambipolar Charge-Transport Characteristics in Organic Mixed-Stack Charge-Transfer Crystals. Journal of the American Chemical Society, 2012, 134, 2340-2347.	13.7	245
4	Active sites of Ni2P/SiO2 catalyst for hydrodeoxygenation of guaiacol: A joint XAFS and DFT study. Journal of Catalysis, 2014, 311, 144-152.	6.2	169
5	Charge Transport Parameters of the Pentathienoacene Crystal. Journal of the American Chemical Society, 2007, 129, 13072-13081.	13.7	153
6	Electronic Evolution of Poly(3,4-ethylenedioxythiophene) (PEDOT): From the Isolated Chain to the Pristine and Heavily Doped Crystals. Journal of the American Chemical Society, 2008, 130, 16880-16889.	13.7	150
7	Molecular n-Type Doping of 1,4,5,8-Naphthalene Tetracarboxylic Dianhydride by Pyroninâ€‰B Studied Using Direct and Inverse Photoelectron Spectroscopies. Advanced Functional Materials, 2006, 16, 831-837.	14.9	126
8	Photoelectron Spectroscopic Study of the Electronic Band Structure of Polyfluorene and Fluorene-Arylamine Copolymers at Interfaces. Journal of Physical Chemistry C, 2007, 111, 1378-1384.	3.1	124
9	The nature of active sites of Ni2P electrocatalyst for hydrogen evolution reaction. Journal of Catalysis, 2015, 326, 92-99.	6.2	107
10	Charge Transfer in Molecular Complexes with 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane (F₄-TCNQ): A Density Functional Theory Study. Chemistry of Materials, 2011, 23, 5149-5159.	6.7	102
11	Use of a High Electron-Affinity Molybdenum Dithiolene Complex to p-Dope Hole-Transport Layers. Journal of the American Chemical Society, 2009, 131, 12530-12531.	13.7	91
12	Charge-Transfer Localization in Molecularly Doped Thiophene-Based Donor Polymers. Journal of Physical Chemistry Letters, 2010, 1, 2037-2041.	4.6	91
13	A Molybdenum Dithiolene Complex asp-Dopant for Hole-Transport Materials: A Multitechnique Experimental and Theoretical Investigation. Chemistry of Materials, 2010, 22, 524-531.	6.7	65
14	Managing Orientation of Nitrogens in Bipyrimidine-Based Thermally Activated Delayed Fluorescent Emitters To Suppress Nonradiative Mechanisms. Chemistry of Materials, 2018, 30, 3215-3222.	6.7	43
15	Atomistic models of amorphous polybutadienes. 2. Poly(1,4-trans-butadiene), poly(1,2-butadiene), and a random copolymer of 1,4-trans-butadiene, 1,4-cis-butadiene, and 1,2-butadiene. Macromolecules, 1993, 26, 3424-3431.	4.8	35
16	Mono- and Dicarbonyl-Bridged Tricyclic Heterocyclic Acceptors: Synthesis and Electronic Properties. Journal of Organic Chemistry, 2011, 76, 2660-2671.	3.2	33
17	Charge-Transport Properties of the Tetraphenylbis(indolo[1,2-a])quinoline and 5,7-Diphenylindolo[1,2-a]quinoline Crystals. Journal of Physical Chemistry C, 2010, 114, 20401-20409.	3.1	30
18	Solvation-Mediated Tuning of the Range-Separated Hybrid Functional: Self-Sufficiency through Screened Exchange. Journal of Chemical Theory and Computation, 2018, 14, 2823-2828.	5.3	25

#	Article	IF	Citations
19	Magnus' Green Salt Revisited: Impact of Platinumâ€“Platinum Interactions on Electronic Structure and Carrier Mobilities. Advanced Materials, 2006, 18, 2039-2043.	21.0	24
20	Electronic Properties of the 2,6-Diiododithieno[3,2-b:2â€²,3â€²-d]thiophene Molecule and Crystal: A Joint Experimental and Theoretical Study. Journal of Physical Chemistry B, 2010, 114, 749-755.	2.6	21
21	The nature of the aluminumâ€“aluminum oxide interface: A nanoscale picture of the interfacial structure and energy-level alignment. Organic Electronics, 2013, 14, 569-574.	2.6	21
22	Charge-Transport Properties of the 1,4-Diiodobenzene Crystal: A Quantum-Mechanical Study. Chemistry of Materials, 2008, 20, 5832-5838.	6.7	17
23	Density Functional Study of Ethyleneâ^'Norbornene Copolymerization via Metallocene and Constrained-Geometry Catalysts. Organometallics, 2004, 23, 3319-3326.	2.3	15
24	Unknotting of a Polymer Strand in a Melt. Macromolecules, 2004, 37, 1674-1677.	4.8	13
25	Dielectric Effects on Charge-Transfer and Local Excited States in Organic Persistent Room-Temperature Phosphorescence. Chemistry of Materials, 2019, 31, 6925-6935.	6.7	13
26	Radial aspect of local dynamics in polybutadiene melts as studied by molecular dynamics simulation: To hop or not to hop. Journal of Chemical Physics, 2002, 117, 2389-2396.	3.0	11
27	Model-independent determination of the degree of charge transfer in molecular and metal complexes. Chemical Communications, 2015, 51, 15071-15074.	4.1	8
28	Controlled electrical doping of organic semiconductors: a combined intra- and intermolecular perspective from first principles. Physical Chemistry Chemical Physics, 2016, 18, 17890-17897.	2.8	6
29	Impact of Functionalized Polystyrenes as the Electron Injection Layer on Gold and Aluminum Surfaces: A Combined Theoretical and Experimental Study. Israel Journal of Chemistry, 2014, 54, 779-788.	2.3	2
30	Hole transport in sulflower revisited: New insight from the band structure. Synthetic Metals, 2016, 221, 25-27.	3.9	2
31	Impact of linking arylene units off-axis on the photophysical properties of polyfluorenes. Synthetic Metals, 2014, 189, 22-25.	3.9	0