

Kyung-Koo Lee

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

1,286
citations

361413

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docs citations

43
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond characterization of vibrational optical activity of chiral molecules. <i>Nature</i> , 2009, 458, 310-313.	27.8	168
2	Quantitative investigations of quantum coherence for a light-harvesting protein at conditions simulating photosynthesis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4857.	2.8	158
3	Novel Phenothiazine-Based Self-Assembled Monolayer as a Hole Selective Contact for Highly Efficient and Stable $\text{p}\text{-i}\text{-n}$ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	77
4	Practical High-Voltage Lithium Metal Batteries Enabled by Tuning the Solvation Structure in Weakly Solvating Electrolyte. <i>Small</i> , 2022, 18, e2107492.	10.0	73
5	Ultrafast fluxional exchange dynamics in electrolyte solvation sheath of lithium ion battery. <i>Nature Communications</i> , 2017, 8, 14658.	12.8	68
6	Highly Sensitive Flexible NH_3 Sensors Based on Printed Organic Transistors with Fluorinated Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7322-7330.	8.0	59
7	Simultaneous Stabilization of the Solid/Cathode Electrolyte Interface in Lithium Metal Batteries by a New Weakly Solvating Electrolyte. <i>Small</i> , 2021, 17, e2100133.	10.0	59
8	Design of a Li-Rich Solid Electrolyte Interphase Layer through Highly Concentrated LiFSI-THF Electrolyte for Stable Lithium Metal Batteries. <i>Small</i> , 2021, 17, e2103375.	10.0	42
9	Structure of N-Acetylproline Amide in Liquid Water: Experimentally Measured and Numerically Simulated Infrared and Vibrational Circular Dichroism Spectra. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18834-18843.	2.6	38
10	Two-Dimensional Infrared Spectroscopy and Molecular Dynamics Simulation Studies of Nonaqueous Lithium Ion Battery Electrolytes. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6651-6663.	2.6	37
11	Operando Raman and UV-Vis spectroscopic investigation of the coloring and bleaching mechanism of self-powered photochromic devices for smart windows. <i>Nano Energy</i> , 2021, 82, 105721.	16.0	34
12	Synergistic Effects on Lithium Metal Batteries by Preferential Ionic Interactions in Concentrated Bisalt Electrolytes. <i>Advanced Energy Materials</i> , 2021, 11, 2003520.	19.5	33
13	1,1-Dimethylpyrrolidinium tetrafluoroborate as novel salt for high-voltage electric double-layer capacitors. <i>Electrochimica Acta</i> , 2019, 299, 98-106.	5.2	32
14	Structure-Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40503-40515.	8.0	31
15	A comprehensive library of blocked dipeptides reveals intrinsic backbone conformational propensities of unfolded proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 977-990.	2.6	30
16	High-voltage and intrinsically safe supercapacitors based on a trimethyl phosphate electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20725-20736.	10.3	26
17	Diffluorobenzothiadiazole and Selenophene-Based Conjugated Polymer Demonstrating an Effective Hole Mobility Exceeding $5 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ with Solid-State Electrolyte Dielectric. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32492-32500.	8.0	22
18	Ultrafast internal rotational dynamics of the azido group in (4S)-azidoproline: Chemical exchange 2DIR spectroscopic investigations. <i>Chemical Physics</i> , 2012, 396, 23-29.	1.9	21

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19	Synthesis, characterization, and electrochemical performance of V-doped Li ₂ MnSiO ₄ /C composites for Li-ion battery. <i>Materials Letters</i> , 2016, 164, 270-273.	2.6	21
20	Site-Specific Hydrogen-Bonding Interaction between N-Acetylproline Amide and Protic Solvent Molecules: Comparisons of IR and VCD Measurements with MD Simulations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13355-13365.	2.5	20
21	Infrared Probing of 4-Azidoproline Conformations Modulated by Azido Configurations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5097-5110.	2.6	20
22	A Nonchlorinated Solvent-Processable Fluorinated Planar Conjugated Polymer for Flexible Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28817-28827.	8.0	20
23	Dipeptide Structure Determination by Vibrational Circular Dichroism Combined with Quantum Chemistry Calculations. <i>ChemPhysChem</i> , 2007, 8, 2218-2226.	2.1	19
24	Ultrafast Vibrational Spectroscopy of Cyanophenols. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2757-2767.	2.5	19
25	Bis(oxalate)borate-containing electrolytes for high voltage electric double-layer capacitors: A comparative study. <i>Electrochimica Acta</i> , 2019, 321, 134649.	5.2	19
26	Fast ultrasound-assisted synthesis of Li ₂ MnSiO ₄ nanoparticles for a lithium-ion battery. <i>Journal of Power Sources</i> , 2015, 294, 522-529.	7.8	18
27	Site-selective Intramolecular Hydrogen-Bonding Interactions in Phosphorylated Serine and Threonine Dipeptides. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16782-16787.	2.6	16
28	Enhanced performances of lithium metal batteries by synergistic effect of low concentration bisalt electrolyte. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12035-12046.	10.3	16
29	Propionitrile as a single organic solvent for high voltage electric double-layer capacitors. <i>Journal of Power Sources</i> , 2020, 463, 228134.	7.8	15
30	Polarization-Angle-Scanning 2DIR Spectroscopy of Coupled Anharmonic Oscillators: A Polarization Null Angle Method. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5456-5464.	2.6	13
31	Solvation Structure around Li ⁺ Ions in Organic Carbonate Electrolytes: Spacer-Free Thin Cell IR Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 12594-12601.	6.5	13
32	Novel flexible photochromic device with unprecedented fast-bleaching kinetic via platinum decoration on WO ₃ layer. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111316.	6.2	11
33	Density Functional Investigation of Graphene Doped with Amine-Based Organic Molecules. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	2.7	7
34	Physical and electrochemical characteristics of carbon content in carbon-coated Li ₂ MnSiO ₄ for rechargeable lithium batteries. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 169-176.	2.9	6
35	Efficient parameterization of intermolecular force fields for molecular dynamics simulations via genetic algorithms. <i>Journal of Molecular Liquids</i> , 2021, 337, 116579.	4.9	6
36	Activated carbons effectively purified by post-heat treatment under vacuum conditions. <i>Carbon Letters</i> , 2021, 31, 973-984.	5.9	4

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37	Rational design of the electrolyte systems for the photochromic device. <i>Electrochimica Acta</i> , 2021, 374, 137964.	5.2	4
38	Regio-regular alternating diketopyrrolopyrrole-based D ₁ -A-D ₂ -A terpolymers for the enhanced performance of polymer solar cells. <i>RSC Advances</i> , 2019, 9, 42096-42109.	3.6	3
39	Recyclable anhydride catalyst for H ₂ O ₂ oxidation: <i>N</i> -oxidation of pyridine derivatives. <i>RSC Advances</i> , 2020, 10, 9165-9171.	3.6	3
40	Hindered C N bond rotation in triazinyl dithiocarbamates. <i>Journal of Molecular Structure</i> , 2018, 1152, 215-222.	3.6	2
41	Quantum mechanical/molecular mechanical approach for the simulation of UV-Vis absorption spectra of π -conjugated oligomers. <i>Journal of Molecular Liquids</i> , 2021, 341, 117406.	4.9	1