

Doseok Kim

List of Publications by Year in descending order

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59
papers

2,054
citations

218677

26
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233421

45
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60
all docs

60
docs citations

60
times ranked

2604
citing authors

#	ARTICLE	IF	CITATIONS
1	Structures of ionic liquid-water mixtures investigated by IR and NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9591-9601.	2.8	195
2	Highly Efficient Red Phosphorescent OLEDs based on Non-Conjugated Silicon-Cored Spirobifluorene Derivative Doped with Ir-Complexes. <i>Advanced Functional Materials</i> , 2009, 19, 420-427.	14.9	140
3	Orientalional ordering of alkyl chain at the air/liquid interface of ionic liquids studied by sum frequency vibrational spectroscopy. <i>Chemical Physics Letters</i> , 2004, 389, 321-326.	2.6	125
4	Local Structure at the Air/Liquid Interface of Room-Temperature Ionic Liquids Probed by Infrared-Visible Sum Frequency Generation Vibrational Spectroscopy: A 1-Alkyl-3-methylimidazolium Tetrafluoroborates. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4860-4866.	2.6	119
5	Double layer structure and adsorption/desorption hysteresis of neat ionic liquid on Pt electrode surface - an in-situ IR-visible sum-frequency generation spectroscopic study. <i>Electrochemistry Communications</i> , 2010, 12, 672-675.	4.7	117
6	Interfacial Restructuring of Ionic Liquids Determined by Sum-Frequency Generation Spectroscopy and X-Ray Reflectivity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19649-19654.	3.1	116
7	Surfaces of Alcohol-Water Mixtures Studied by Sum-Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18507-18514.	2.6	99
8	Surface Structural Study on Ionic Liquids Using Metastable Atom Electron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19237-19243.	3.1	79
9	Anion Configuration at the Air/Liquid Interface of Ionic Liquid [bmim]OTf Studied by Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11936-11941.	2.6	66
10	Rubbed Polyimide Surface Studied by Sum-Frequency Vibrational Spectroscopy. <i>Macromolecules</i> , 2001, 34, 9125-9129.	4.8	58
11	Sum-Frequency Spectroscopic Study of Langmuir Monolayers of Lipids Having Oppositely Charged Headgroups. <i>Langmuir</i> , 2010, 26, 18266-18272.	3.5	54
12	Aggregation Behavior of Aqueous Solutions of 1-Dodecyl-3-methylimidazolium Salts with Different Halide Anions. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 1529-1534.	1.9	51
13	Sum-frequency vibrational spectroscopic studies of Langmuir monolayers. <i>Current Applied Physics</i> , 2013, 13, 619-632.	2.4	50
14	Turn-on and Turn-off Fluorescent Probes for Carbon Monoxide Detection and Blood Carboxyhemoglobin Determination. <i>ACS Sensors</i> , 2018, 3, 1102-1108.	7.8	44
15	Detection of the mycotoxin citrinin using silver substrates and Raman spectroscopy. <i>Journal of Hazardous Materials</i> , 2014, 265, 89-95.	12.4	43
16	Characteristics of Visible Fluorescence from Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10818-10825.	2.6	40
17	Surface Nanocrystallization of an Ionic Liquid. <i>Physical Review Letters</i> , 2012, 108, 055502.	7.8	39
18	Comparison of Photophysical Properties of the Hemicyanine Dyes in Ionic and Nonionic Solvents. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1906-1912.	2.6	37

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19	Nonlinear absorption of Cr ⁴⁺ :YAG studied with lasers of different pulsewidths. Applied Physics Letters, 1998, 73, 3193-3195.	3.3	36
20	Adsorption and desorption of tyrosine kinase inhibitor erlotinib on gold nanoparticles. Journal of Colloid and Interface Science, 2014, 425, 96-101.	9.4	35
21	Colloidal gold nanoparticle conjugates of gefitinib. Colloids and Surfaces B: Biointerfaces, 2014, 123, 61-67.	5.0	35
22	Raman Spectroscopic Study on Alkyl Chain Conformation in 1-Butyl-3-methylimidazolium Ionic Liquids and their Aqueous Mixtures. ChemPhysChem, 2016, 17, 3040-3046.	2.1	34
23	Polarization-Resolved Broad-Bandwidth Sum-Frequency Generation Spectroscopy of Monolayer Relaxation. Journal of Physical Chemistry C, 2007, 111, 8878-8883.	3.1	33
24	Anion exchange in ionic liquid mixtures. Physical Chemistry Chemical Physics, 2015, 17, 29786-29792.	2.8	32
25	Repair of Ischemic Injury by Pluripotent Stem Cell Based Cell Therapy without Teratoma through Selective Photosensitivity. Stem Cell Reports, 2015, 5, 1067-1080.	4.8	30
26	Nonlinear vibrational spectroscopic studies on water/ionic liquid([C _n mim]TFSA; n = 4, 8) interfaces. Faraday Discussions, 2012, 154, 289-301.	3.2	27
27	Origin of the Instability of Octadecylamine Langmuir Monolayer at Low pH. Langmuir, 2015, 31, 13753-13758.	3.5	27
28	Cooperative Conformational Transitions Keep RecA Filament Active During ATPase Cycle. Journal of the American Chemical Society, 2014, 136, 14796-14800.	13.7	24
29	Specificity and Variation of Length Scale over Which Monovalent Halide Ions Neutralize a Charged Interface. Journal of Physical Chemistry C, 2015, 119, 7130-7137.	3.1	23
30	Imaging of Collapsed Fatty Acid Films at Air-Water Interfaces. Langmuir, 2009, 25, 9262-9269.	3.5	22
31	Alkyl-chain dividing layer at an alcohol/ionic liquid buried interface studied by sum-frequency generation vibrational spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 12943.	2.8	22
32	RecA filament maintains structural integrity using ATP-driven internal dynamics. Science Advances, 2017, 3, e1700676.	10.3	21
33	Change of hydrogen bonding structure in ionic liquid mixtures by anion type. Journal of Chemical Physics, 2018, 148, 193827.	3.0	20
34	Binding of trivalent ions on fatty acid Langmuir monolayer: Fe ³⁺ versus La ³⁺ . Journal of Chemical Physics, 2018, 149, 163304.	3.0	20
35	Salt Promotes Protonation of Amine Groups at Air/Water Interface. Journal of Physical Chemistry Letters, 2017, 8, 3601-3606.	4.6	19
36	Liquid/liquid interface layering of 1-butanol and [bmim]PF ₆ ionic liquid: a nonlinear vibrational spectroscopy and molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2015, 17, 24587-24597.	2.8	17

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37	Rotation and translation dynamics of coumarin 153 in choline chloride-based deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2018, 149, 174503.	3.0	15
38	Fluorescence correlation spectroscopy study on room-temperature ionic liquids. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1555-1559.	0.7	11
39	Density Profiles of Liquid/Vapor Interfaces Away from Their Critical Points. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12405-12409.	3.1	9
40	Bi-layering at ionic liquid surfaces: a sum-frequency generation vibrational spectroscopy- and molecular dynamics simulation-based study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12565-12576.	2.8	9
41	Dynamic Growth and Shrinkage Govern the pH Dependence of RecA Filament Stability. <i>PLoS ONE</i> , 2015, 10, e0115611.	2.5	9
42	Finite-size effects in Monte Carlo simulations of the Gaussian disorder model. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1897-1901.	0.7	7
43	Recovery of Fatty Acid Monolayers by Salts Investigated by Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2022, 126, 643-649.	2.6	7
44	Side chain assisted nanotubular self-assembly of cyclic peptides at the air-water interface. <i>Soft Matter</i> , 2010, 6, 4701.	2.7	6
45	Structure of Electric Double Layer under Cationic Langmuir Monolayer: Charge Condensation Effect. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3417-3423.	4.6	6
46	Different Adsorption Behavior of Rare Earth and Metallic Ion Complexes on Langmuir Monolayers Probed by Sum-Frequency Generation Spectroscopy. <i>Journal of the Optical Society of Korea</i> , 2013, 17, 10-15.	0.6	6
47	Observation of isolated ionic liquid cations and water molecules in an inert solvent. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27529-27535.	2.8	5
48	Concentration Dependence of Ion Pairing in Imidazolium-Based Ionic Liquid Solutions. <i>ChemPhysChem</i> , 2019, 20, 482-488.	2.1	4
49	Self-Phase Modulation in a Dye-Doped Liquid-Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 370, 103-106.	0.3	3
50	Interfacial Structure at Ionic-liquid/Molecular-liquid Interfaces Probed by Sum-Frequency Generation Vibrational Spectroscopy. <i>ACS Symposium Series</i> , 2010, , 305-316.	0.5	2
51	Characterization of Noise in a Single-Molecule Fluorescence Signal. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1160-1167.	2.6	2
52	ORIENTATION REARRANGEMENT AND AGGREGATION OF OXADIAZOLE TYPE DYE. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2004, 13, 553-558.	1.8	1
53	Charge Inversion at the Surface by Adsorption of Trivalent Cations on Langmuir Monolayer. , 2007, , .		1
54	Reply to the "Comment on "Bi-layering at ionic liquid surfaces: a sum-frequency generation vibrational spectroscopy- and molecular dynamics simulation-based study" by M. Deutsch, O. M. Magnussen, J. Haddad, D. Pontoni, B. M. Murphy and B. M. Ocko, <i>Phys. Chem. Chem. Phys.</i>, 2021, DOI: 10.1039/DOCP04882H. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5028-5030.	2.8	1

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55	Comparison of the Fluorescence Characteristics of Dye Molecules in Liquid Crystal and Conventional Solvents. Journal of the Korean Physical Society, 2008, 53, 2261-2264.	0.7	1
56	Self-Assembled Polythiophene Monolayer on Gold Surface. Molecular Crystals and Liquid Crystals, 2000, 349, 167-170.	0.3	0
57	Spontaneous Ordering of Nonlinear Optical Groups in a Polymer Thin Film Through Cross-Linking. Molecular Crystals and Liquid Crystals, 2000, 349, 23-26.	0.3	0
58	Structural change of interfacial water by adsorption of counterions on Langmuir monolayer. , 2009, , .		0
59	Kinetics of DNA looping by Anabaena sensory rhodopsin transducer (ASRT) by using DNA cyclization assay. Scientific Reports, 2021, 11, 23721.	3.3	0