

Shen Ye

List of Publications by Year in descending order

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57
papers

3,024
citations

159585

30
h-index

155660

55
g-index

60
all docs

60
docs citations

60
times ranked

3006
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the Unstable Nature of Tetraglyme-Based Electrolytes toward Superoxide and the Inhibitory Effect of Lithium Ions by Using In Situ Vibrational Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2980-2989.	3.1	10
2	Bromine Vapor Induced Continuous p- to n-Type Conversion of a Semiconductive Metal-Organic Framework Cu[Cu(pdt) ₂]. <i>Inorganic Chemistry</i> , 2022, 61, 4414-4420.	4.0	4
3	Molecular Structures at Nafion/Graphene Interfaces Investigated by Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6523-6530.	3.1	4
4	Accelerated intermediate conversion through nickel doping into mesoporous Co-N/C nanopolyhedron for efficient ORR. <i>Journal of Energy Chemistry</i> , 2022, 73, 240-247.	12.9	23
5	Quantitative Evaluation on the Degradation Process of the Pulmonary Surfactant Monolayer When Exposed to Low-Level Ozone of Ambient Environment. <i>Analytical Chemistry</i> , 2022, 94, 8651-8658.	6.5	4
6	Effect of Head Group on Low-Level Ozone Oxidation of Unsaturated Phospholipids on a Water Surface. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 486-489.	3.2	8
7	High-Speed Excitation-Spectral Microscopy Uncovers In Situ Rearrangement of Light-Harvesting Apparatus in <i>Chlamydomonas</i> during State Transitions at Submicron Precision. <i>Plant and Cell Physiology</i> , 2021, 62, 872-882.	3.1	9
8	Dispersion of Complex Refractive Indices for Intense Vibrational Bands. I. Quantitative Spectra. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9794-9803.	2.6	11
9	Dispersion of Complex Refractive Indices for Intense Vibrational Bands. II. Implication to Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9804-9810.	2.6	8
10	Role of Oxygen in Surface Structures of the Solid-Electrolyte Interphase Investigated by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17538-17547.	3.1	21
11	Structural Design of Oxygen Reduction Redox Mediators (ORRMs) Based on Anthraquinone (AQ) for the Li-O ₂ Battery. <i>ACS Catalysis</i> , 2020, 10, 9790-9803.	11.2	20
12	Probing the electrode-solution interfaces in rechargeable batteries by sum-frequency generation spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 170902.	3.0	27
13	In Situ Monitoring of the Unsaturated Phospholipid Monolayer Oxidation in Ambient Air by HD-SFG Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5246-5250.	2.6	19
14	In Situ Spectroscopic Investigations of Electrochemical Oxygen Reduction and Evolution Reactions in Cyclic Carbonate Electrolyte Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15781-15792.	3.1	16
15	In situ surface-enhanced Raman spectroscopy in Li-O ₂ battery research. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 174-183.	4.8	30
16	Effect of Frequency-Dependent Fresnel Factor on the Vibrational Sum Frequency Generation Spectra for Liquid/Solid Interfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15665-15673.	3.1	25
17	Reaction mechanisms of the oxygen reduction and evolution reactions in aprotic solvents for Li-O ₂ batteries. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 151-156.	4.8	21
18	Effect of sulfate adlayer on formic acid oxidation on Pd(111) electrode. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 649-656.	1.3	4

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19	Origin of the Overpotential for the Oxygen Evolution Reaction on a Well-Defined Graphene Electrode Probed by in Situ Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 15568-15571.	13.7	64
20	Surface-Restructuring Differences between Polyrotaxanes and Random Copolymers in Aqueous Environment. <i>Langmuir</i> , 2018, 34, 12463-12470.	3.5	6
21	Microscopic Investigation of Ethylene Carbonate Interface: A Molecular Dynamics and Vibrational Spectroscopic Study. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 1124-1135.	4.9	4
22	Adsorption of organic carbonate solvents on a carbon surface probed by sum frequency generation (SFG) vibrational spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 134-143.	3.8	34
23	In Situ Atomic Force Microscopy (AFM) Study of Oxygen Reduction Reaction on a Gold Electrode Surface in a Dimethyl Sulfoxide (DMSO)-Based Electrolyte Solution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25246-25255.	3.1	54
24	Surface Structure of Organic Carbonate Liquids Investigated by Molecular Dynamics Simulation and Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15185-15197.	3.1	21
25	Spectroscopic Investigation for Oxygen Reduction and Evolution Reactions with Tetrathiafulvalene as a Redox Mediator in Li ⁺ O ₂ Battery. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15830-15845.	3.1	75
26	In Situ Study of Oxygen Reduction in Dimethyl Sulfoxide (DMSO) Solution: A Fundamental Study for Development of the Lithium ⁺ Oxygen Battery. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12236-12250.	3.1	122
27	Oxidative Degradation of the Monolayer of 1-Palmitoyl-2-Oleoyl- <i>sn</i> -Glycero-3-Phosphocholine (POPC) in Low-Level Ozone. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14188-14199.	2.6	33
28	Structural Reorganization and Fibrinogen Adsorption Behaviors on the Polyrotaxane Surfaces Investigated by Sum Frequency Generation Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22709-22718.	8.0	13
29	Interfacial Structure of Soft Matter Probed by SFG Spectroscopy. <i>Chemical Record</i> , 2014, 14, 791-805.	5.8	31
30	Structure and stability studies of mixed monolayers of saturated and unsaturated phospholipids under low-level ozone. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17775.	2.8	40
31	Preferential Adsorption of Solvents on the Cathode Surface of Lithium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5753-5756.	13.8	74
32	Role of Adsorption Structures of Zn-Porphyrin on TiO ₂ in Dye-Sensitized Solar Cells Studied by Sum Frequency Generation Vibrational Spectroscopy and Ultrafast Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6066-6080.	3.1	137
33	Interference effects in the sum frequency generation spectra of thin organic films. II: Applications to different thin-film systems. <i>Journal of Chemical Physics</i> , 2010, 133, 034705.	3.0	27
34	Interference effects in the sum frequency generation spectra of thin organic films. I. Theoretical modeling and simulation. <i>Journal of Chemical Physics</i> , 2010, 133, 034704.	3.0	54
35	Adsorption of Propylene Carbonate (PC) on the LiCoO ₂ Surface Investigated by Nonlinear Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20531-20534.	3.1	59
36	Surface Structure Dependent Electro-oxidation of Dimethyl Ether on Platinum Single-Crystal Electrodes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18836-18838.	3.1	34

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37	Sum Frequency Generation from Langmuir-Blodgett Multilayer Films on Metal and Dielectric Substrates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18723-18732.	2.6	77
38	Hydrogen Bonding on the Surface of Poly(2-methoxyethyl acrylate). <i>Journal of the American Chemical Society</i> , 2004, 126, 12198-12199.	13.7	89
39	Potential-dependent structure of the interfacial water on the gold electrode. <i>Surface Science</i> , 2004, 573, 11-16.	1.9	88
40	Electrochemical Control of CO/NO Ligand Exchange in a Triruthenium Cluster Monolayer Assembled on a Gold Electrode Surface. <i>Journal of the American Chemical Society</i> , 2004, 126, 7434-7435.	13.7	52
41	Cd ²⁺ -Induced Interfacial Structural Changes of Langmuir-Blodgett Films of Stearic Acid on Solid Substrates: A Sum Frequency Generation Study. <i>Langmuir</i> , 2004, 20, 357-365.	3.5	90
42	Formate, an Active Intermediate for Direct Oxidation of Methanol on Pt Electrode. <i>Journal of the American Chemical Society</i> , 2003, 125, 3680-3681.	13.7	466
43	Structural Changes in Poly(2-methoxyethyl acrylate) Thin Films Induced by Absorption of Bisphenol A. An Infrared and Sum Frequency Generation (SFG) Study. <i>Macromolecules</i> , 2003, 36, 5694-5703.	4.8	96
44	Surface Molecular Structures of Langmuir-Blodgett Films of Stearic Acid on Solid Substrates Studied by Sum Frequency Generation Spectroscopy. <i>Langmuir</i> , 2003, 19, 2238-2242.	3.5	80
45	Sum frequency generation (SFG) study of the pH-dependent water structure on a fused quartz surface modified by an octadecyltrichlorosilane (OTS) monolayer. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3463-3469.	2.8	171
46	Conformational Order of Octadecanethiol (ODT) Monolayer at Gold/Solution Interface: Internal Reflection Sum Frequency Generation (SFG) Study. <i>Studies in Surface Science and Catalysis</i> , 2001, , 705-710.	1.5	9
47	Coverage dependent behavior of redox reaction induced structure change and mass transport at an 11-ferrocenyl-1-undecanethiol self-assembled monolayer on a gold electrode studied by an in situ IRRAS-EQCM combined system. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3653-3659.	2.8	68
48	Attenuated total reflection Fourier transform infrared spectroscopy study of the adsorption of organic contaminants on a hydrogen-terminated Si(111) surface in air. <i>Applied Physics Letters</i> , 1999, 75, 1562-1564.	3.3	49
49	Anisotropic Dissolution of an Au(111) Electrode in Perchloric Acid Solution Containing Chloride Anion Investigated by in Situ STM The Important Role of Adsorbed Chloride Anion. <i>Langmuir</i> , 1999, 15, 807-812.	3.5	75
50	Electrochemical and Infrared Spectroelectrochemical Characterization of Self-Assembled Monolayers of a Carbonyl-Coordinated Trinuclear Ruthenium Complex on a Gold Electrode. <i>Electrochemistry</i> , 1999, 67, 1162-1164.	1.4	10
51	An In Situ Electrochemical Quartz Crystal Microbalance Study of the Dissolution Process of a Gold Electrode in Perchloric Acid Solution Containing Chloride Ion. <i>Journal of the Electrochemical Society</i> , 1998, 145, 1614-1623.	2.9	64
52	Structure of the GaAs(100) Surface During Electrochemical Reactions Determined by Electrochemical Atomic Force Microscopy. <i>ACS Symposium Series</i> , 1997, , 189-201.	0.5	3
53	Adsorption of Hexachloroplatinate Complex on Au(111) Electrode. An In Situ Scanning Tunneling Microscopy and Electrochemical Quartz Microbalance Study. <i>Langmuir</i> , 1997, 13, 594-596.	3.5	35
54	Electrochemical Epitaxial Growth of a Pt(111) Phase on an Au(111) Electrode. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7566-7572.	2.6	118

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55	Redox-Induced Orientation Change of a Self-Assembled Monolayer of 11-Ferrocenyl-1-undecanethiol on a Gold Electrode Studied by in Situ FT-IRRAS. <i>Langmuir</i> , 1997, 13, 3157-3161.	3.5	130
56	Electrochemical in situ FT-IRRAS studies of a self-assembled monolayer of 2-(11-mercaptoundecyl)hydroquinone. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3813.	1.7	67
57	In-situ FT-IR Spectroelectrochemical Study of the Trinuclear Complex [Ru ₃ (μ ₃ -O)(μ ₃ -CH ₃ COO) ₆ (CO)(pyridine) ₂] in Acetonitrile. <i>Inorganic Chemistry</i> , 1995, 34, 4527-4528.	4.0	41