

Le Liu

List of Publications by Year in descending order

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92
papers

3,182
citations

159358

30
h-index

155451

55
g-index

93
all docs

93
docs citations

93
times ranked

2337
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical activation of graphite felt electrode for VO ₂ ⁺ /VO ₂ redox couple application. <i>Electrochimica Acta</i> , 2013, 89, 429-435.	2.6	300
2	Effect of degree of sulfonation and casting solvent on sulfonated poly(ether ether ketone) membrane for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015, 285, 195-204.	4.0	167
3	Insights into the Impact of the Nafion Membrane Pretreatment Process on Vanadium Flow Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12228-12238.	4.0	166
4	Properties Investigation of Sulfonated Poly(ether ether ketone)/Polyacrylonitrile Acid-Base Blend Membrane for Vanadium Redox Flow Battery Application. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18885-18893.	4.0	162
5	CeO ₂ decorated graphite felt as a high-performance electrode for vanadium redox flow batteries. <i>RSC Advances</i> , 2014, 4, 61912-61918.	1.7	128
6	Broad temperature adaptability of vanadium redox flow battery-Part 1: Electrolyte research. <i>Electrochimica Acta</i> , 2016, 187, 525-534.	2.6	127
7	Holey-engineered electrodes for advanced vanadium flow batteries. <i>Nano Energy</i> , 2018, 43, 55-62.	8.2	127
8	Exceptional Performance of Hierarchical Ni-Fe (hydr)oxide@NiCu Electrocatalysts for Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1806769.	11.1	124
9	Sulfonated Poly(Ether Ether Ketone)/Graphene composite membrane for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2014, 132, 200-207.	2.6	120
10	Preparation and characterization of sulfonated poly(ether ether ketone)/poly(vinylidene fluoride) blend membrane for vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2013, 237, 132-140.	4.0	94
11	Membrane evaluation for vanadium flow batteries in a temperature range of ~20-50 °C. <i>Journal of Membrane Science</i> , 2017, 522, 45-55.	4.1	90
12	Broad temperature adaptability of vanadium redox flow battery-Part 2: Cell research. <i>Electrochimica Acta</i> , 2016, 191, 695-704.	2.6	84
13	The benefits and limitations of electrolyte mixing in vanadium flow batteries. <i>Applied Energy</i> , 2017, 204, 373-381.	5.1	76
14	Reduction of capacity decay in vanadium flow batteries by an electrolyte-reflow method. <i>Journal of Power Sources</i> , 2017, 338, 17-25.	4.0	73
15	Characterization of sulfonated poly(ether ether ketone)/poly(vinylidene fluoride) membrane for vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2014, 272, 427-435.	4.0	63
16	MiRNA-26b regulates the expression of cyclooxygenase-2 in desferrioxamine-treated CNE cells. <i>FEBS Letters</i> , 2010, 584, 961-967.	1.3	56
17	Broad temperature adaptability of vanadium redox flow battery-Part 3: The effects of total vanadium concentration and sulfuric acid concentration. <i>Electrochimica Acta</i> , 2018, 259, 11-19.	2.6	56
18	State of charge monitoring for vanadium redox flow batteries by the transmission spectra of V(IV)/V(V) electrolytes. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 1025-1031.	1.5	55

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19	Tailoring the vanadium/proton ratio of electrolytes to boost efficiency and stability of vanadium flow batteries over a wide temperature range. <i>Applied Energy</i> , 2021, 301, 117454.	5.1	54
20	Quantum-dots-encoded-microbeads based molecularly imprinted polymer. <i>Biosensors and Bioelectronics</i> , 2016, 77, 886-893.	5.3	48
21	A symmetrical optical waveguide based surface plasmon resonance biosensing system. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 91-96.	4.0	47
22	Carbon dots promoted vanadium flow batteries for all-climate energy storage. <i>Chemical Communications</i> , 2017, 53, 7565-7568.	2.2	46
23	In situ mapping of activity distribution and oxygen evolution reaction in vanadium flow batteries. <i>Nature Communications</i> , 2019, 10, 5286.	5.8	45
24	Electrochemical evaluation methods of vanadium flow battery electrodes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14708-14717.	1.3	43
25	Broad temperature adaptability of vanadium redox flow battery—part 4: Unraveling wide temperature promotion mechanism of bismuth for V ²⁺ /V ³⁺ couple. <i>Journal of Energy Chemistry</i> , 2018, 27, 1333-1340.	7.1	41
26	Rice Paper Reinforced Sulfonated Poly(ether ether ketone) as Low-Cost Membrane for Vanadium Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2437-2444.	3.2	39
27	Parallel scan spectral surface plasmon resonance imaging. <i>Applied Optics</i> , 2008, 47, 5616.	2.1	36
28	Rational use and reuse of Nafion 212 membrane in vanadium flow batteries. <i>RSC Advances</i> , 2017, 7, 19425-19433.	1.7	35
29	An on-line spectroscopic monitoring system for the electrolytes in vanadium redox flow batteries. <i>RSC Advances</i> , 2015, 5, 100235-100243.	1.7	34
30	A two-dimensional polarization interferometry based parallel scan angular surface plasmon resonance biosensor. <i>Review of Scientific Instruments</i> , 2011, 82, 023109.	0.6	33
31	MoS ₂ —CoS ₂ heteronanosheet arrays coated on porous carbon microtube textile for overall water splitting. <i>Journal of Power Sources</i> , 2021, 514, 230580.	4.0	32
32	Bifunctional effects of halloysite nanotubes in vanadium flow battery membrane. <i>Journal of Membrane Science</i> , 2018, 564, 237-246.	4.1	31
33	The indefinite cycle life via a method of mixing and online electrolysis for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2019, 438, 226990.	4.0	31
34	Revealing sulfuric acid concentration impact on comprehensive performance of vanadium electrolytes and flow batteries. <i>Electrochimica Acta</i> , 2019, 303, 21-31.	2.6	30
35	Decoding of Quantum Dots Encoded Microbeads Using a Hyperspectral Fluorescence Imaging Method. <i>Analytical Chemistry</i> , 2015, 87, 5286-5293.	3.2	25
36	Plasmon waveguide resonance sensor using an Au—MgF ₂ structure. <i>Applied Optics</i> , 2014, 53, 6344.	0.9	23

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37	Rapid detection of the positive side reactions in vanadium flow batteries. <i>Applied Energy</i> , 2017, 185, 452-462.	5.1	23
38	Asymmetric vanadium flow batteries: long lifespan via an anolyte overhang strategy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29195-29203.	1.3	21
39	Quasi-Confocal, Multichannel Parallel Scan Hyperspectral Fluorescence Imaging Method Optimized for Analysis of Multicolor Microarrays. <i>Analytical Chemistry</i> , 2010, 82, 7752-7757.	3.2	19
40	ZIF-derived holey electrode with enhanced mass transfer and N-rich catalytic sites for high-power and long-life vanadium flow batteries. <i>Journal of Energy Chemistry</i> , 2022, 72, 545-553.	7.1	19
41	Line-scanning Raman imaging spectroscopy for detection of fingerprints. <i>Applied Optics</i> , 2012, 51, 3701.	0.9	17
42	Resolution enhancement of surface plasmon resonance sensors with spectral interrogation: resonant wavelength considerations. <i>Applied Optics</i> , 2016, 55, 884.	2.1	17
43	Composite layer based plasmon waveguide resonance for label-free biosensing with high figure of merit. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 69-78.	4.0	17
44	Optimization of angle-pixel resolution for angular plasmonic biosensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 188-197.	4.0	17
45	Real-Time Study of the Disequilibrium Transfer in Vanadium Flow Batteries at Different States of Charge via Refractive Index Detection. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28550-28555.	1.5	15
46	Detect the Hybridization of Single-Stranded DNA by Parallel Scan Spectral Surface Plasmon Resonance Imaging. <i>Plasmonics</i> , 2013, 8, 1185-1191.	1.8	14
47	One-dimensional angular surface plasmon resonance imaging based array thermometer. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 254-261.	4.0	14
48	Temperature-Regulated Surface Plasmon Resonance Imaging System for Bioaffinity Sensing. <i>Plasmonics</i> , 2016, 11, 771-779.	1.8	14
49	Method of Reflow and Online Electrolysis in the Vanadium Redox Battery: Benefits and Limitations. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10275-10283.	3.2	13
50	Parallel Structural Join Algorithm on Shared-Memory Multi-Core Systems. , 2008, , .		12
51	Non-scan and real-time multichannel angular surface plasmon resonance imaging method. <i>Applied Optics</i> , 2014, 53, 6037.	0.9	12
52	A Waveguide-Coupled Surface Plasmon Resonance Sensor Using an Au-MgF ₂ -Au Structure. <i>Plasmonics</i> , 2019, 14, 187-195.	1.8	12
53	Temperature-Insensitive Label-Free Sensors for Human IgG Based on S-Tapered Optical Fiber Sensors. <i>IEEE Access</i> , 2021, 9, 116286-116293.	2.6	12
54	Online Spectroscopic Study on the Positive and the Negative Electrolytes in Vanadium Redox Flow Batteries. <i>Journal of Spectroscopy</i> , 2013, 2013, 1-8.	0.6	11

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55	Parallel-scan based microarray imager capable of simultaneous surface plasmon resonance and hyperspectral fluorescence imaging. <i>Biosensors and Bioelectronics</i> , 2011, 30, 180-187.	5.3	10
56	Polarization interference interrogation of angular surface plasmon resonance sensors with wide metal film thickness tolerance. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 218-224.	4.0	10
57	The detection method for small molecules coupled with a molecularly imprinted polymer/quantum dot chip using a home-built optical system. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5261-5268.	1.9	10
58	Self-Referenced Plasmon Waveguide Resonance Sensor Using Different Waveguide Modes. <i>Journal of Sensors</i> , 2015, 2015, 1-10.	0.6	9
59	Boosting the thermal stability of electrolytes in vanadium redox flow batteries via 1-hydroxyethane-1,1-diphosphonic acid. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 255-264.	1.5	9
60	An Efficient Parallel PathStack Algorithm for Processing XML Twig Queries on Multi-core Systems. <i>Lecture Notes in Computer Science</i> , 2010, , 277-291.	1.0	9
61	Two-channel, quasi-confocal parallel scan fluorescence imaging for detection of biochips. <i>Optics and Lasers in Engineering</i> , 2010, 48, 849-855.	2.0	7
62	Study on the Despeckle Methods in Angular Surface Plasmon Resonance Imaging Sensors. <i>Plasmonics</i> , 2015, 10, 729-737.	1.8	7
63	A low-cost average valence detector for mixed electrolytes in vanadium flow batteries. <i>RSC Advances</i> , 2018, 8, 20773-20780.	1.7	7
64	An Optimized Angular Total Internal Reflection Sensor With High Resolution in Vanadium Flow Batteries. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 3170-3178.	2.4	7
65	Imaging Sensor for the Detection of the Flow Battery Via Weak Value Amplification. <i>Analytical Chemistry</i> , 2021, 93, 12914-12920.	3.2	7
66	Detection of methane by a surface plasmon resonance sensor based on polarization interferometry and angle modulation. <i>Optics and Lasers in Engineering</i> , 2010, 48, 1182-1185.	2.0	6
67	MgF ₂ @Au@MgF ₂ -polydopamine based surface plasmon resonance sensor and its application in biomedical systems. <i>Analytical Methods</i> , 2013, 5, 6306.	1.3	6
68	Noninvasive and Real-Time Plasmon Waveguide Resonance Thermometry. <i>Sensors</i> , 2015, 15, 8481-8498.	2.1	6
69	Characterizing the Onset Potential Distribution of Pt/C Catalyst Deposition by a Total Internal Reflection Imaging Method. <i>Small</i> , 2021, 17, e2102407.	5.2	6
70	Line-Monitoring, Hyperspectral Fluorescence Setup for Simultaneous Multi-Analyte Biosensing. <i>Sensors</i> , 2011, 11, 10038-10047.	2.1	5
71	Polarization-interferometry-based wavelength-interrogation surface plasmon resonance imager for analysis of microarrays. <i>Journal of Biomedical Optics</i> , 2012, 17, 036002.	1.4	5
72	Multi-Channel Hyperspectral Fluorescence Detection Excited by Coupled Plasmon-Waveguide Resonance. <i>Sensors</i> , 2013, 13, 13892-13902.	2.1	5

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73	An amplitude modulation fluorometric method for phytoplankton classified measure. <i>Optik</i> , 2014, 125, 2661-2664.	1.4	5
74	Study on Trace Sample of Chronic Skin Ulcer with a Symmetrical Optical Waveguide-Based Surface Plasmon Resonance Biosensor. <i>Plasmonics</i> , 2015, 10, 1631-1637.	1.8	5
75	Parallel scan hyperspectral fluorescence imaging system and biomedical application for microarrays. <i>Journal of Physics: Conference Series</i> , 2011, 277, 012023.	0.3	3
76	Specific detection of glucose by an optical weak measurement sensor. <i>Biomedical Optics Express</i> , 2021, 12, 5128.	1.5	3
77	In situ detection of electrochemical reaction by weak measurement. <i>Optics Express</i> , 2021, 29, 19292.	1.7	3
78	Efficient and Durable Cu ₃ P-FeP for Hydrogen Evolution from Seawater with Current Density Exceeding 1 A cm ⁻² . <i>ACS Applied Energy Materials</i> , 2022, 5, 2909-2917.	2.5	3
79	Study on the SPR responses of various DNA probe concentrations by parallel scan spectral SPR imaging. , 2008, , .		2
80	Experimental study of the optimal metal film for surface plasmon resonance. , 2009, , .		2
81	Experimental study on the influence of the metal film thickness on surface plasmon resonance biosensors. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
82	A BIOSENSOR USING COUPLED PLASMON WAVEGUIDE RESONANCE COMBINED WITH HYPERSPECTRAL FLUORESCENCE ANALYSIS. <i>Journal of Innovative Optical Health Sciences</i> , 2014, 07, 1450017.	0.5	1
83	A saccharides sensor developed by symmetrical optical waveguide-based surface plasmon resonance. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550003.	0.5	1
84	High-Throughput Chiral Molecule Determination Based on Multi-Channel Weak Measurement. <i>IEEE Photonics Journal</i> , 2021, 13, 1-12.	1.0	1
85	SPR sensor based on phase modulation and polarization interferometry. , 2006, , .		0
86	Study on conditions of DNA immobilization by surface plasmon resonance imaging. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
87	A comparison study of microarrays by fluorescence imaging and surface plasmon resonance imaging. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
88	A new parallel scan spectral SPR 2D sensing system. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
89	Immobilization of human papillomavirus DNA probe for surface plasmon resonance imaging. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
90	A fiber-based fluorometric system for in situ algal classification. <i>Optics and Laser Technology</i> , 2016, 76, 121-126.	2.2	0

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91	Optimization of the Weak Measurement System by Determining the Optimal Total Phase Difference. IEEE Photonics Journal, 2021, 13, 1-8.	1.0	0
92	Demonstration of a New Characterization Method for Weak Measurement. Frontiers in Chemistry, 2022, 10, .	1.8	0