Zhenyu Chu

List of Publications by Year
in descending order

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		212478	232693
71	2,488	28	48
papers	citations	h-index	g-index

71	71	71	3735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Screen-printing of core-shell Mn3O4@C nanocubes based sensing microchip performing ultrasensitive recognition of allura red. Food and Chemical Toxicology, 2022, 162, 112908.	1.8	12
2	Beyond separation: Membranes towards medicine. , 2022, 2, 100020.		4
3	In situ fabrication of urchin-like Cu@carbon nanoneedles based aptasensor for ultrasensitive recognition of trace mercury ion. Biosensors and Bioelectronics, 2022, 206, 114147.	5.3	8
4	Membranes for the life sciences and their future roles in medicine. Chinese Journal of Chemical Engineering, 2022, 49, 1-20.	1.7	5
5	Dehydration of <scp>C₂</scp>â€“<scp>C₄</scp> alcohol/water mixtures via electrostatically enhanced graphene oxide laminar membranes. AICHE Journal, 2021, 67, aic17170.	1.8	26
6	Screenâ€printing of nanocubeâ€based flexible microchips for the precise biosensing of ethanol during fermentation. AICHE Journal, 2021, 67, e17142.	1.8	10
7	3D Prussian blue/Pt decorated carbon nanofibers based screen-printed microchips for the ultrasensitive hydroquinone biosensing. Chinese Journal of Chemical Engineering, 2021, 37, 105-113.	1.7	10
8	Au/In₂O₃ Nanocubes Based Labelâ€free Aptasensor for Ultrasensitive and Rapid Recognition of Cardiac Troponinâ€…I. Electroanalysis, 2021, 33, 1810-1818.	1.5	10
9	Rapid determination of sucrose and glucose in microbial fermentation and fruit juice samples using engineered multi-enzyme biosensing microchip. Microchemical Journal, 2021, 164, 106075.	2.3	10
10	Recent advances in electrochemical enzymatic biosensors based on regular nanostructured materials. Journal of Electroanalytical Chemistry, 2021, 893, 115328.	1.9	21
11	In-situ growth of Cu@CuFe Prussian blue based core-shell nanowires for non-enzymatic electrochemical determination of ascorbic acid with high sensitivity and reusability. Journal of Electroanalytical Chemistry, 2021, 900, 115718.	1.9	8
12	A handheld testing device for the fast and ultrasensitive recognition of cardiac troponin I via an ion-sensitive field-effect transistor. Biosensors and Bioelectronics, 2021, 193, 113554.	5.3	20
13	In Situ Construction of Oriented Ptâ€PANI Needleâ€Like Nanoarraysâ€Based Labelâ€Free Aptasensor for Ultrafast and Ultrasensitive Recognition of Cardiac Troponin I. Advanced Materials Interfaces, 2021, 8, .	1.9	3
14	In Situ Construction of Oriented Ptâ€PANI Needleâ€Like Nanoarraysâ€Based Labelâ€Free Aptasensor for Ultrafast and Ultrasensitive Recognition of Cardiac Troponin I (Adv. Mater. Interfaces 24/2021). Advanced Materials Interfaces, 2021, 8, .	1.9	1
15	Facile preparation of porous Co3O4 nanocubes for directly screen-printing an ultrasensitive glutamate biosensor microchip. Sensors and Actuators B: Chemical, 2020, 306, 127587.	4.0	29
16	In Situ-Forming Magnetic Fe₃O₄ Nanoroses on Defect-Controllable Mesoporous Graphene Oxide for Enzyme-Mimic Sensing. Industrial & Engineering Chemistry Research, 2020, 59, 17934-17943.	1.8	7
17	In situ fabrication of aloe-like Auâ€“ZnO micro/nanoarrays for ultrasensitive biosensing of catechol. Biosensors and Bioelectronics, 2020, 156, 112145.	5.3	33
18	Artificial Electron Mediator with Nanocubic Architecture Highly Promotes Microbial Electrosynthesis from Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2020, 8, 6777-6785.	3.2	20

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19	A Separationâ€Sensing Membrane Performing Precise Realâ€Time Serum Analysis During Blood Drawing. Angewandte Chemie - International Edition, 2020, 59, 18701-18708.	7.2	23
20	A Separationâ€Sensing Membrane Performing Precise Realâ€Time Serum Analysis During Blood Drawing. Angewandte Chemie, 2020, 132, 18860-18867.	1.6	0
21	In situ fabrication of CuO nanowire film for high-sensitive ascorbic acid recognition. Sensors and Actuators B: Chemical, 2019, 296, 126617.	4.0	33
22	Electrochemical mercury biosensors based on advanced nanomaterials. Journal of Materials Chemistry B, 2019, 7, 3620-3632.	2.9	35
23	Simultaneous biosensing of catechol and hydroquinone via a truncated cube-shaped Au/PBA nanocomposite. Biosensors and Bioelectronics, 2019, 124-125, 260-267.	5.3	67
24	High-performance electrochemical mercury aptasensor based on synergistic amplification of Pt nanotube arrays and Fe3O4/rGO nanoprobes. Biosensors and Bioelectronics, 2018, 104, 1-7.	5.3	45
25	One-step synthesis of three-dimensional Co(OH)2/rGO nano-flowers as enzyme-mimic sensors for glucose detection. Electrochimica Acta, 2018, 270, 147-155.	2.6	56
26	An ultrasensitive biosensing flexible chip using a novel silver@Prussian blue core-shell nanocube composite. Sensors and Actuators B: Chemical, 2018, 276, 31-41.	4.0	34
27	A regular nanostructured dithiolene metal complex film for ultrasensitive biosensing of liver enzyme. Sensors and Actuators B: Chemical, 2017, 241, 860-867.	4.0	18
28	Recent progress in Prussian blue films: Methods used to control regular nanostructures for electrochemical biosensing applications. Biosensors and Bioelectronics, 2017, 96, 17-25.	5.3	82
29	In-situ secondary growth of nanocube-based Prussian-blue film as an ultrasensitive biosensor. Progress in Natural Science: Materials International, 2017, 27, 297-302.	1.8	4
30	A highly sensitive and reusable electrochemical mercury biosensor based on tunable vertical single-walled carbon nanotubes and a target recycling strategy. Journal of Materials Chemistry B, 2017, 5, 1073-1080.	2.9	41
31	Advanced nanomaterial inks for screen-printed chemical sensors. Sensors and Actuators B: Chemical, 2017, 243, 919-926.	4.0	92
32	A highly sensitive electrochemical IFN-Î³ aptasensor based on a hierarchical graphene/AuNPs electrode interface with a dual enzyme-assisted amplification strategy. RSC Advances, 2017, 7, 45053-45060.	1.7	18
33	Facile synthesis of Prussian blue nanocubes/silver nanowires network as a water-based ink for the direct screen-printed flexible biosensor chips. Biosensors and Bioelectronics, 2017, 92, 709-717.	5.3	65
34	A facile and green strategy for preparing newly-designed 3D graphene/gold film and its application in highly efficient electrochemical mercury assay. Biosensors and Bioelectronics, 2017, 89, 871-879.	5.3	56
35	A novel membrane with heterogeneously functionalized nanocrystal layers performing blood separation and sensing synchronously. Chemical Communications, 2016, 52, 12706-12709.	2.2	8
36	Single layer of graphene/Prussian blue nano-grid as the low-potential biosensors with high electrocatalysis. Electrochimica Acta, 2016, 217, 210-217.	2.6	20

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37	Unprecedented Perovskite Oxyfluoride Membranes with Highâ€Efficiency Oxygen Ion Transport Paths for Lowâ€Temperature Oxygen Permeation. Advanced Materials, 2016, 28, 3511-3515.	11.1	121
38	Compact film fabrication of porous coordination polymer Co₃[Co(CN)₆]₂ and its reversible vapochromic behavior. Dalton Transactions, 2016, 45, 10249-10255.	1.6	17
39	Conducting Membranes: Unprecedented Perovskite Oxyfluoride Membranes with Highâ€Efficiency Oxygen Ion Transport Paths for Lowâ€Temperature Oxygen Permeation (Adv. Mater. 18/2016). Advanced Materials, 2016, 28, 3510-3510.	11.1	1
40	Subnanometer Two-Dimensional Graphene Oxide Channels for Ultrafast Gas Sieving. ACS Nano, 2016, 10, 3398-3409.	7.3	330
41	Screen-printed biosensor chips with Prussian blue nanocubes for the detection of physiological analytes. Sensors and Actuators B: Chemical, 2016, 228, 679-687.	4.0	69
42	Self-Organized Nano- and Microstructure of Electrochemical Materials by Design of Fabrication Approaches. , 2016, , 1033-1056.		0
43	Highâ€Efficiency Waterâ€Transport Channels using the Synergistic Effect of a Hydrophilic Polymer and Graphene Oxide Laminates. Advanced Functional Materials, 2015, 25, 5809-5815.	7.8	177
44	Enhanced performance of g-C3N4/TiO2 photocatalysts for degradation of organic pollutants under visible light. Chinese Journal of Chemical Engineering, 2015, 23, 1326-1334.	1.7	62
45	Prussian blue nanocubes decorated three-dimensional silver nanowires network for high-performance electrochemical biosensing. Sensors and Actuators B: Chemical, 2015, 221, 1009-1016.	4.0	21
46	In-situ fabrication of well-distributed gold nanocubes on thiol graphene as a third-generation biosensor for ultrasensitive glucose detection. Electrochimica Acta, 2015, 176, 162-171.	2.6	33
47	Integrated, highly crystalline and water stable coordination framework films on various substrates and water-assisted protonic conductivity. Chemical Communications, 2015, 51, 7947-7949.	2.2	16
48	Facile fabrication of a three-dimensional gold nanowire array for high-performance electrochemical sensing. Journal of Materials Chemistry B, 2015, 3, 3134-3140.	2.9	25
49	CO₂-tolerant oxygen-permeable perovskite-type membranes with high permeability. Journal of Materials Chemistry A, 2015, 3, 22564-22573.	5.2	81
50	3D porous Î±-Ni(OH)₂ nanostructure interconnected with carbon black as a high-performance gas sensing material for NO₂ at room temperature. RSC Advances, 2015, 5, 101760-101767.	1.7	17
51	Self-Organized Nano- and Micro-structure of Electrochemical Materials by Design of Fabrication Approaches. , 2015, , 1-20.		0
52	An ultrasensitive electrochemical sensing platform for Hg2+ based on a density controllable metal-organic hybrid microarray. Biosensors and Bioelectronics, 2014, 54, 165-170.	5.3	41
53	A guest-dependent thermochromic feature in a metalâ€“organic framework and its thin film on different supports. Journal of Materials Chemistry A, 2014, 2, 13698-13704.	5.2	27
54	Three-dimensional porous microarray of gold modified electrode for ultrasensitive and simultaneous assay of various cancer biomarkers. Journal of Materials Chemistry B, 2014, 2, 2658.	2.9	13

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55	Prussian blue nanocubes modified graphite electrodes for the electrochemical detection of various analytes with high performance. Sensors and Actuators B: Chemical, 2014, 202, 820-826.	4.0	18
56	In Situ Fabrication of Threeâ€Dimensional Graphene Films on Gold Substrates with Controllable Pore Structures for Highâ€Performance Electrochemical Sensing. Advanced Functional Materials, 2014, 24, 7032-7041.	7.8	54
57	3D graphene nano-grid as a homogeneous protein distributor for ultrasensitive biosensors. Biosensors and Bioelectronics, 2014, 61, 422-428.	5.3	7
58	A highly oriented hybrid microarray modified electrode fabricated by a template-free method for ultrasensitive electrochemical DNA recognition. Nanoscale, 2013, 5, 10219.	2.8	34
59	Comparative study of structures, thermal stabilities and dielectric properties for a ferroelectric MOF [Sr(Ï¼-BDC)(DMF)]âˆž with its solvent-free framework. Dalton Transactions, 2013, 42, 6603.	1.6	25
60	Amperometric glucose biosensor based on direct assembly of Prussian blue film with ionic liquid-chitosan matrix assisted enzyme immobilization. Sensors and Actuators B: Chemical, 2013, 176, 978-984.	4.0	54
61	Facile synthesis of hierarchically aloe-like gold micro/nanostructures for ultrasensitive DNA recognition. Biosensors and Bioelectronics, 2013, 49, 184-191.	5.3	39
62	In-situ growth of micro-cubic Prussian blueâ€“TiO2 composite film as a highly sensitive H2O2 sensor by aerosol co-deposition approach. Biosensors and Bioelectronics, 2013, 47, 329-334.	5.3	28
63	Single layer Prussian blue grid as a versatile enzyme trap for low-potential biosensors. Journal of Materials Chemistry, 2012, 22, 14874.	6.7	19
64	Highly enhanced performance of glucose biosensor via in situ growth of oriented Au micro-cypress. Journal of Materials Chemistry, 2012, 22, 21917.	6.7	14
65	Hierarchical self-assembly of double structured Prussian blue film for highly sensitive biosensors. Journal of Materials Chemistry, 2011, 21, 11968.	6.7	11
66	Design and Preparation of Nanostructured Prussian Blue Modified Electrode for Glucose Detection. , 2011, , .		1
67	Effect of temperature-controlled poly(diallyldimethylammonium chloride) on morphology of self-assembled Prussian Blue electrode and its high detection sensitivity of hydrogen peroxide. Electrochimica Acta, 2011, 56, 8163-8167.	2.6	11
68	Template-free growth of regular nano-structured Prussian blue on a platinum surface and its application in biosensors with high sensitivity. Journal of Materials Chemistry, 2010, 20, 7815.	6.7	49
69	A sensitivity-controlled hydrogen peroxide sensor based on self-assembled Prussian Blue modified electrode. Electrochemistry Communications, 2009, 11, 484-487.	2.3	88
70	Amperometric glucose biosensor with high sensitivity based on self-assembled Prussian Blue modified electrode. Electrochimica Acta, 2009, 54, 7490-7494.	2.6	33
71	Facile fabrication of a Prussian Blue film by direct aerosol deposition on a Pt electrode. Chemical Communications, 2009, , 3566.	2.2	18