Gongke Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	1,345 citations	304743 22 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	1218 citing authors

#	Article	IF	Citations
1	Cathode materials for aqueous zinc-ion batteries: A mini review. Journal of Colloid and Interface Science, 2022, 605, 828-850.	9.4	92
2	Structural Reconstruction Driven by Oxygen Vacancies in Layered Niâ€Rich Cathodes. Advanced Energy Materials, 2022, 12, .	19.5	53
3	A Unique Structure of Highly Stable Interphase and Selfâ€Consistent Stress Distribution Radialâ€Gradient Porous for Silicon Anode. Advanced Functional Materials, 2022, 32, .	14.9	34
4	Thermodynamic and Kinetic Binding Behaviors of Human Serum Albumin to Silver Nanoparticles. Materials, 2022, 15, 4957.	2.9	4
5	Direct conversion of ester bond-rich waste plastics into hard carbon for high-performance sodium storage. Carbon, 2021, 173, 253-261.	10.3	34
6	Simultaneous voltammetric determination of epinephrine and acetaminophen using a highly sensitive CoAl-OOH/reduced graphene oxide sensor in pharmaceutical samples and biological fluids. Materials Science and Engineering C, 2021, 119, 111557.	7.3	20
7	Suppressing capacity fading and voltage decay of Ni-rich cathode material by dual-ion doping for lithium-ion batteries. Journal of Materials Science, 2021, 56, 2347-2359.	3.7	14
8	Nickelâ€Rich Layered Cathode Materials for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2021, 27, 4249-4269.	3.3	44
9	Synthesis of N-doped straw sheafâ€“like porous MnO@C composite as anode of advanced lithium-/sodium-ion batteries. Ionics, 2021, 27, 551-559.	2.4	4
10	The direct application of spent graphite as a functional interlayer with enhanced polysulfide trapping and catalytic performance for Liâ€“S batteries. Green Chemistry, 2021, 23, 942-950.	9.0	43
11	Inhibition of the shuttle effect of lithiumâ€“sulfur batteries via a tannic acid-metal one-step in situ chemical film-forming modified separator. Nanoscale, 2021, 13, 5058-5068.	5.6	15
12	Silicon/graphite composite anode with constrained swelling and a stable solid electrolyte interphase enabled by spent graphite. Green Chemistry, 2021, 23, 4531-4539.	9.0	40
13	Hard carbon for sodium storage: mechanism and optimization strategies toward commercialization. Energy and Environmental Science, 2021, 14, 2244-2262.	30.8	177
14	A Ge/Carbon Atomicâ€Scale Hybrid Anode Material: A Microâ€“Nano Gradient Porous Structure with High Cycling Stability. Angewandte Chemie - International Edition, 2021, 60, 12539-12546.	13.8	41
15	A Ge/Carbon Atomicâ€Scale Hybrid Anode Material: A Microâ€“Nano Gradient Porous Structure with High Cycling Stability. Angewandte Chemie, 2021, 133, 12647-12654.	2.0	4
16	Solid Electrolyte Interphase Composition Regulation via Coating AlF₃ for a High-Performance Hard Carbon Anode in Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 8242-8251.	5.1	6
17	Electrochemically inert aluminum cations coordinated with tetrahydroxybenzoquinone toward high-energy storage. ACS Applied Energy Materials, 2021, 4, 8538-8549.	5.1	2
18	Promoting electrochemical kinetics of Li-S batteries with C@SnS2 modified separator via synergic effect between porous carbon matrix and polar SnS2. Electrochimica Acta, 2021, 390, 138829.	5.2	10

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19	SiO_x Anode: From Fundamental Mechanism toward Industrial Application. Small, 2021, 17, e2102641.	10.0	57
20	Recent advance in structure regulation of highâ€capacity Niâ€rich layered oxide cathodes. EcoMat, 2021, 3, e12141.	11.9	38
21	Enabling Superior Electrochemical Performance of Lithium-Rich Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ Cathode Materials by Surface Integration. Industrial & Engineering Chemistry Research, 2020, 59, 19312-19321.	3.7	15
22	Facile Utilization of Spent LiCoO₂ in Separator Decoration of Lithium-Sulfur Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 17911-17917.	3.7	4
23	Key Parameter Optimization for the Continuous Synthesis of Ni-Rich Niâ€“Coâ€“Al Cathode Materials for Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 22549-22558.	3.7	11
24	Novel Bifunctional Separator with a Self-Assembled FeOOH/Coated g-C₃N₄/KB Bilayer in Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 57859-57869.	8.0	23
25	Effects of gold nanoparticle morphologies on interactions with proteins. Materials Science and Engineering C, 2020, 111, 110830.	7.3	35
26	Research Progress on Improving the Sulfur Conversion Efficiency on the Sulfur Cathode Side in Lithiumâ€“Sulfur Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 20979-21000.	3.7	13
27	Surface chemistry of gold nanoparticles determines interactions with bovine serum albumin. Materials Science and Engineering C, 2019, 103, 109856.	7.3	39
28	DNA-functionalized gold nanoparticle-based fluorescence polarization for the sensitive detection of silver ions. Colloids and Surfaces B: Biointerfaces, 2018, 167, 150-155.	5.0	29
29	Interactions of Bovine Serum Albumin Molecules in an Aqueous Sodium Sulfate Solution Determined by an Osmotic Pressure Method. Journal of Solution Chemistry, 2018, 47, 586-594.	1.2	1
30	Probing the binding behavior and kinetics of silver nanoparticles with bovine serum albumin. RSC Advances, 2017, 7, 9393-9401.	3.6	62
31	Exploring the interaction of silver nanoparticles with lysozyme: Binding behaviors and kinetics. Colloids and Surfaces B: Biointerfaces, 2017, 157, 138-145.	5.0	60
32	Exploration of interactions between decyl-Î²-d-glucopyranoside and bovine serum albumin in aqueous solution. RSC Advances, 2016, 6, 19700-19706.	3.6	4
33	Î²-Carotene and astaxanthin with human and bovine serum albumins. Food Chemistry, 2015, 179, 213-221.	8.2	89
34	Probing the binding of trypsin to glutathione-stabilized gold nanoparticles in aqueous solution. Colloids and Surfaces B: Biointerfaces, 2015, 135, 261-266.	5.0	21
35	A reversible fluorescent INHIBIT logic gate for determination of silver and iodide based on the use of graphene oxide and a silverâ€“selective probe DNA. Mikrochimica Acta, 2015, 182, 2513-2520.	5.0	22
36	Probing the interaction of human serum albumin with DPPH in the absence and presence of the eight antioxidants. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 1144-1152.	3.9	12

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37	Study on the interaction between gold nanoparticles and papain by spectroscopic methods. Journal of Luminescence, 2015, 157, 229-234.	3.1	26
38	Interaction of procyanidin B3 with bovine serum albumin. RSC Advances, 2014, 4, 7301.	3.6	36
39	Exploring the binding mechanism of phosphoramidate derivative with DNA: Spectroscopy, calorimetry and modeling. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 104, 492-496.	3.9	11
40	DNA binding properties and biological evaluation of dihydropyrimidinones derivatives as potential antitumor agents. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 114, 214-219.	3.9	8
41	Exploring DNA binding properties and biological activities of dihydropyrimidinones derivatives. Colloids and Surfaces B: Biointerfaces, 2013, 106, 28-36.	5.0	24
42	Exploring the binding mechanism of dihydropyrimidinones to human serum albumin: Spectroscopic and molecular modeling techniques. Colloids and Surfaces B: Biointerfaces, 2011, 84, 272-279.	5.0	54
43	Exploring the mechanism of interaction between 5-(ethoxycarbonyl)-6-methyl-4-(4-methoxyphenyl)-3,4-dihydropyrimidin-2(1H)-one and human serum albumin: Spectroscopic, calorimetric and molecular modeling studies. Journal of Pharmaceutical and Biomedical Analysis, 2011, 55, 1223-1226.	2.8	14