

# Gongke Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4423889/publications.pdf>

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	Hard carbon for sodium storage: mechanism and optimization strategies toward commercialization. <i>Energy and Environmental Science</i> , 2021, 14, 2244-2262.	30.8	177
2	Cathode materials for aqueous zinc-ion batteries: A mini review. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 828-850.	9.4	92
3	Î²-Carotene and astaxanthin with human and bovine serum albumins. <i>Food Chemistry</i> , 2015, 179, 213-221.	8.2	89
4	Probing the binding behavior and kinetics of silver nanoparticles with bovine serum albumin. <i>RSC Advances</i> , 2017, 7, 9393-9401.	3.6	62
5	Exploring the interaction of silver nanoparticles with lysozyme: Binding behaviors and kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 138-145.	5.0	60
6	SiO <sub>2</sub> Anode: From Fundamental Mechanism toward Industrial Application. <i>Small</i> , 2021, 17, e2102641.	10.0	57
7	Exploring the binding mechanism of dihydropyrimidinones to human serum albumin: Spectroscopic and molecular modeling techniques. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 272-279.	5.0	54
8	Structural Reconstruction Driven by Oxygen Vacancies in Layered Ni-Rich Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	53
9	Nickel-Rich Layered Cathode Materials for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2021, 27, 4249-4269.	3.3	44
10	The direct application of spent graphite as a functional interlayer with enhanced polysulfide trapping and catalytic performance for Li-S batteries. <i>Green Chemistry</i> , 2021, 23, 942-950.	9.0	43
11	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro-Nano Gradient Porous Structure with High Cycling Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12539-12546.	13.8	41
12	Silicon/graphite composite anode with constrained swelling and a stable solid electrolyte interphase enabled by spent graphite. <i>Green Chemistry</i> , 2021, 23, 4531-4539.	9.0	40
13	Surface chemistry of gold nanoparticles determines interactions with bovine serum albumin. <i>Materials Science and Engineering C</i> , 2019, 103, 109856.	7.3	39
14	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. <i>EcoMat</i> , 2021, 3, e12141.	11.9	38
15	Interaction of procyanidin B3 with bovine serum albumin. <i>RSC Advances</i> , 2014, 4, 7301.	3.6	36
16	Effects of gold nanoparticle morphologies on interactions with proteins. <i>Materials Science and Engineering C</i> , 2020, 111, 110830.	7.3	35
17	Direct conversion of ester bond-rich waste plastics into hard carbon for high-performance sodium storage. <i>Carbon</i> , 2021, 173, 253-261.	10.3	34
18	A Unique Structure of Highly Stable Interphase and Self-Consistent Stress Distribution Radial-Gradient Porous for Silicon Anode. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	34

#	ARTICLE	IF	CITATIONS
19	DNA-functionalized gold nanoparticle-based fluorescence polarization for the sensitive detection of silver ions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 150-155.	5.0	29
20	Study on the interaction between gold nanoparticles and papain by spectroscopic methods. <i>Journal of Luminescence</i> , 2015, 157, 229-234.	3.1	26
21	Exploring DNA binding properties and biological activities of dihydropyrimidinones derivatives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 106, 28-36.	5.0	24
22	Novel Bifunctional Separator with a Self-Assembled FeOOH/Coated g-C <sub>3</sub> N <sub>4</sub> /KB Bilyer in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57859-57869.	8.0	23
23	A reversible fluorescent INHIBIT logic gate for determination of silver and iodide based on the use of graphene oxide and a silver-selective probe DNA. <i>Mikrochimica Acta</i> , 2015, 182, 2513-2520.	5.0	22
24	Probing the binding of trypsin to glutathione-stabilized gold nanoparticles in aqueous solution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 261-266.	5.0	21
25	Simultaneous voltammetric determination of epinephrine and acetaminophen using a highly sensitive CoAl-OOH/reduced graphene oxide sensor in pharmaceutical samples and biological fluids. <i>Materials Science and Engineering C</i> , 2021, 119, 111557.	7.3	20
26	Enabling Superior Electrochemical Performance of Lithium-Rich Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Cathode Materials by Surface Integration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 19312-19321.	3.7	15
27	Inhibition of the shuttle effect of lithium-sulfur batteries via a tannic acid-metal one-step in situ chemical film-forming modified separator. <i>Nanoscale</i> , 2021, 13, 5058-5068.	5.6	15
28	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 55, 1223-1226.	2.8	14
29	Suppressing capacity fading and voltage decay of Ni-rich cathode material by dual-ion doping for lithium-ion batteries. <i>Journal of Materials Science</i> , 2021, 56, 2347-2359.	3.7	14
30	Research Progress on Improving the Sulfur Conversion Efficiency on the Sulfur Cathode Side in Lithium-Sulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20979-21000.	3.7	13
31	Probing the interaction of human serum albumin with DPPH in the absence and presence of the eight antioxidants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 1144-1152.	3.9	12
32	Exploring the binding mechanism of phosphoramidate derivative with DNA: Spectroscopy, calorimetry and modeling. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 492-496.	3.9	11
33	Key Parameter Optimization for the Continuous Synthesis of Ni-Rich Ni-Co-Al Cathode Materials for Lithium-Ion Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 22549-22558.	3.7	11
34	Promoting electrochemical kinetics of Li-S batteries with C@SnS <sub>2</sub> modified separator via synergic effect between porous carbon matrix and polar SnS <sub>2</sub> . <i>Electrochimica Acta</i> , 2021, 390, 138829.	5.2	10
35	DNA binding properties and biological evaluation of dihydropyrimidinones derivatives as potential antitumor agents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 114, 214-219.	3.9	8
36	Solid Electrolyte Interphase Composition Regulation via Coating AlF <sub>3</sub> for a High-Performance Hard Carbon Anode in Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 8242-8251.	5.1	6

#	ARTICLE	IF	CITATIONS
37	Exploration of interactions between decyl- $\beta$ -D-glucopyranoside and bovine serum albumin in aqueous solution. <i>RSC Advances</i> , 2016, 6, 19700-19706.	3.6	4
38	Facile Utilization of Spent $\text{LiCoO}_2$ in Separator Decoration of Lithium-Sulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17911-17917.	3.7	4
39	Synthesis of N-doped straw sheaf-like porous $\text{MnO}@C$ composite as anode of advanced lithium-/sodium-ion batteries. <i>Ionics</i> , 2021, 27, 551-559.	2.4	4
40	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro-Nano Gradient Porous Structure with High Cycling Stability. <i>Angewandte Chemie</i> , 2021, 133, 12647-12654.	2.0	4
41	Thermodynamic and Kinetic Binding Behaviors of Human Serum Albumin to Silver Nanoparticles. <i>Materials</i> , 2022, 15, 4957.	2.9	4
42	Electrochemically inert aluminum cations coordinated with tetrahydroxybenzoquinone toward high-energy storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 8538-8549.	5.1	2
43	Interactions of Bovine Serum Albumin Molecules in an Aqueous Sodium Sulfate Solution Determined by an Osmotic Pressure Method. <i>Journal of Solution Chemistry</i> , 2018, 47, 586-594.	1.2	1