

# Bo Song

## List of Publications by Year in descending order

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60  
papers

3,509  
citations

257450

24  
h-index

133252

59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

5102  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. <i>Advanced Functional Materials</i> , 2010, 20, 453-459.	14.9	1,310
2	Graphene on Au(111): A Highly Conductive Material with Excellent Adsorption Properties for High-Resolution Bio/Nanodetection and Identification. <i>ChemPhysChem</i> , 2010, 11, 585-589.	2.1	222
3	Stable Alkali Metal Ion Intercalation Compounds as Optimized Metal Oxide Nanowire Cathodes for Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 2180-2185.	9.1	160
4	Alkaline earth metal vanadates as sodium-ion battery anodes. <i>Nature Communications</i> , 2017, 8, 460.	12.8	136
5	Ion Enrichment on the Hydrophobic Carbon-based Surface in Aqueous Salt Solutions due to Cation- $\pi$ Interactions. <i>Scientific Reports</i> , 2013, 3, 3436.	3.3	121
6	Bilayered $\text{Mg}_{0.25}\text{V}_2\text{O}_5 \cdot \text{H}_2\text{O}$ as a Stable Cathode for Rechargeable Ca-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 1328-1335.	17.4	121
7	Observation of Glassy Ferromagnetism in Al-Doped 4H-SiC. <i>Journal of the American Chemical Society</i> , 2009, 131, 1376-1377.	13.7	103
8	Time-dependent four-component relativistic density functional theory for excitation energies. <i>Journal of Chemical Physics</i> , 2004, 121, 6658-6666.	3.0	94
9	Time-dependent four-component relativistic density-functional theory for excitation energies. II. The exchange-correlation kernel. <i>Journal of Chemical Physics</i> , 2005, 123, 054102.	3.0	93
10	Intercalation and diffusion of lithium ions in a carbon nanotube bundle by ab initio molecular dynamics simulations. <i>Energy and Environmental Science</i> , 2011, 4, 1379.	30.8	76
11	Terahertz Wave Accelerates DNA Unwinding: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7002-7008.	4.6	74
12	Observation of spin-glass behavior in antiperovskite $\text{Mn}_3\text{GaN}$ . <i>Applied Physics Letters</i> , 2008, 92, 192511.	3.3	68
13	Nonthermal and reversible control of neuronal signaling and behavior by midinfrared stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	64
14	Magnetic properties of Mn-doped 6H-SiC. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	58
15	Dynamic Cooperation of Hydrogen Binding and $\pi$ -Stacking in ssDNA Adsorption on Graphene Oxide. <i>Chemistry - A European Journal</i> , 2017, 23, 13100-13104.	3.3	55
16	A power-free microfluidic chip for SNP genotyping using graphene oxide and a DNA intercalating dye. <i>Chemical Communications</i> , 2013, 49, 3125.	4.1	54
17	Transition to a Superpermeation Phase of Confined Water Induced by a Terahertz Electromagnetic Wave. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 256-262.	4.6	50
18	Nucleobase adsorbed at graphene devices: Enhance bio-sensorics. <i>Applied Physics Letters</i> , 2012, 100, 063101.	3.3	45

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19	Molecular junctions in the Coulomb blockade regime: Rectification and nesting. <i>Physical Review B</i> , 2007, 76, .	3.2	38
20	Molecular-scale Hydrophilicity Induced by Solute: Molecular-thick Charged Pancakes of Aqueous Salt Solution on Hydrophobic Carbon-based Surfaces. <i>Scientific Reports</i> , 2014, 4, 6793.	3.3	35
21	Anomalous Conductance Response of DNA Wires under Stretching. <i>Nano Letters</i> , 2008, 8, 3217-3220.	9.1	28
22	Cation- $\pi$ : Cooperative Interaction of a Cation and Three Benzenes with an Anomalous Order in Binding Energy. <i>Journal of the American Chemical Society</i> , 2012, 134, 12104-12109.	13.7	27
23	Is Aerogen- $\pi$ Interaction Capable of Initiating the Noncovalent Chemistry of Group 18?. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2615-2618.	3.3	27
24	Terahertz-Light Induced Structural Transition and Superpermeation of Confined Monolayer Water. <i>ACS Photonics</i> , 2021, 8, 781-786.	6.6	27
25	Demonstration of biophoton-driven DNA replication via gold nanoparticle-distance modulated yield oscillation. <i>Nano Research</i> , 2021, 14, 40-45.	10.4	26
26	Anisotropic Dielectric Relaxation of the Water Confined in Nanotubes for Terahertz Spectroscopy Studied by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7967-7971.	2.6	24
27	Molecular Recognition and Interaction between Uracil and Urea in Solid-State Studied by Terahertz Time-Domain Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10927-10933.	2.5	24
28	From Dynamic Superwettability to Ionic/Molecular Superfluidity. <i>Accounts of Chemical Research</i> , 2022, 55, 1195-1204.	15.6	24
29	Reversible Hydrophobicity- $\pi$ Hydrophilicity Transition Modulated by Surface Curvature. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2346-2352.	4.6	22
30	DNA Base Pair Hybridization and Water-Mediated Metastable Structures Studied by Molecular Dynamics Simulations. <i>Biochemistry</i> , 2011, 50, 9628-9632.	2.5	21
31	Enhanced Aerogen- $\pi$ Interaction by a Cation- $\pi$ Force. <i>Chemistry - A European Journal</i> , 2016, 22, 2586-2589.	3.3	21
32	Irreversible Denaturation of Proteins through Aluminum-Induced Formation of Backbone Ring Structures. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6358-6363.	13.8	20
33	Hydrophobic collapse-driven nanoparticle coating with poly-adenine adhesives. <i>Chemical Communications</i> , 2021, 57, 3801-3804.	4.1	18
34	Driving Force of Molecular/Ionic Superfluid Formation. <i>CCS Chemistry</i> , 2021, 3, 1258-1266.	7.8	17
35	Reinforcing multiwall carbon nanotubes by electron beam irradiation. <i>Journal of Applied Physics</i> , 2010, 108, 084314.	2.5	16
36	Anomalous $\kappa$ - $V$ curve for mono-atomic carbon chains. <i>New Journal of Physics</i> , 2010, 12, 103017.	2.9	16

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37	Experimental observation of ferromagnetism evolution in nanostructured semiconductor InN. <i>Journal of Materials Chemistry</i> , 2010, 20, 9935.	6.7	15
38	Cell vibron polariton resonantly self-confined in the myelin sheath of nerve. <i>Nano Research</i> , 2020, 13, 38-44.	10.4	15
39	The quantized chemical reaction resonantly driven by multiple MIR-photons: From nature to the artificial. <i>Nano Research</i> , 2021, 14, 4367-4369.	10.4	14
40	Anomalous behavior of membrane fluidity caused by copper-copper bond coupled phospholipids. <i>Scientific Reports</i> , 2018, 8, 14093.	3.3	13
41	An improved DNA force field for ssDNA interactions with gold nanoparticles. <i>Journal of Chemical Physics</i> , 2014, 140, 234102.	3.0	12
42	Resonant Confinement of an Excitonic Polariton and Ultraefficient Light Harvest in Artificial Photosynthesis. <i>Physical Review Letters</i> , 2019, 122, 257402.	7.8	12
43	Poly-Adenine-Engineered Gold Nanogaps for SERS Nanostructures. <i>ACS Applied Nano Materials</i> , 2019, 2, 3501-3509.	5.0	11
44	The macroscopic quantum state of ion channels: A carrier of neural information. <i>Science China Materials</i> , 2021, 64, 2572-2579.	6.3	11
45	A wave function based ab initio nonequilibrium Green's function approach to charge transport. <i>Journal of Applied Physics</i> , 2006, 100, 013702.	2.5	9
46	Tripeptide-dopamine fluorescent hybrids: a coassembly-inspired antioxidative strategy. <i>Chemical Communications</i> , 2020, 56, 6301-6304.	4.1	8
47	Formation Dynamics of Potassium-Based Graphite Intercalation Compounds: An <i>Ab Initio</i> Study. <i>Physical Review Applied</i> , 2018, 9, .	3.8	7
48	Towards a Stable Layered Vanadium Oxide Cathode for High-Capacity Calcium Batteries. <i>Small</i> , 2022, 18, .	10.0	7
49	Effects of Conduction Electron Band Structure on Transport of Quantum Dot Systems. <i>Chinese Physics Letters</i> , 2003, 20, 717-720.	3.3	6
50	Denaturation of dsDNA Induced by Specific Major Groove Binding of Cadmium Ion to Thymine. <i>ACS Omega</i> , 2017, 2, 8490-8494.	3.5	6
51	Interaction of Graphene-on-Al(111) Composite with $\alpha$ -Glucopyranose and Its Application in Biodetection. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8475-8480.	3.1	5
52	Chemical reactions in the Co-Si-C system. <i>Powder Diffraction</i> , 2008, 23, 329-333.	0.2	4
53	Green Fluorescent Tripeptide Nanostructures: Synergetic Effects of Oxidation and Hierarchical Assembly. <i>ACS Macro Letters</i> , 2021, 10, 825-830.	4.8	4
54	Synthesis of hexagonal mesoporous silicates functionalized with amino groups in the pore channels by a co-condensation approach. <i>RSC Advances</i> , 2016, 6, 53991-54000.	3.6	3

#	ARTICLE	IF	CITATIONS
55	Quantum essence of particle superfluidity. Nano Research, 2022, 15, 5230-5234.	10.4	3
56	Inside Cover: Graphene on Au(111): A Highly Conductive Material with Excellent Adsorption Properties for High-Resolution Bio/Nanodetection and Identification (ChemPhysChem 3/2010). ChemPhysChem, 2010, 11, 530-530.	2.1	2
57	Asymmetry induces Q-band split in the electronic excitations of magnesium porphyrin. Molecular Physics, 2018, 116, 1697-1705.	1.7	2
58	Superconductivity in a two-dimensional hole-doped spin-orbital system. Physical Review B, 2003, 68, .	3.2	1
59	An ab initio Non-Equilibrium Green Function Approach to Charge Transport: Dithiolethine. Chinese Physics Letters, 2006, 23, 689-692.	3.3	1
60	Dynamic correlation of photo-excited electrons: Anomalous levels induced by light-matter coupling. Physica B: Condensed Matter, 2014, 438, 109-113.	2.7	0