

Huai-Ling Gao

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,414
citations

172457

29
h-index

206112

48
g-index

51
all docs

51
docs citations

51
times ranked

6473
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic nacre by predesigned matrix-directed mineralization. <i>Science</i> , 2016, 354, 107-110.	12.6	706
2	Three-Dimensional Heteroatom-Doped Carbon Nanofiber Networks Derived from Bacterial Cellulose for Supercapacitors. <i>Advanced Functional Materials</i> , 2014, 24, 5104-5111.	14.9	535
3	Super-elastic and fatigue resistant carbon material with lamellar multi-arch microstructure. <i>Nature Communications</i> , 2016, 7, 12920.	12.8	344
4	Mass production of bulk artificial nacre with excellent mechanical properties. <i>Nature Communications</i> , 2017, 8, 287.	12.8	293
5	Bioinspired polymeric woods. <i>Science Advances</i> , 2018, 4, eaat7223.	10.3	219
6	Self-healing and superstretchable conductors from hierarchical nanowire assemblies. <i>Nature Communications</i> , 2018, 9, 2786.	12.8	195
7	Macroscopic Free-Standing Hierarchical 3D Architectures Assembled from Silver Nanowires by Ice Templating. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4561-4566.	13.8	184
8	Stretchable Conductors Based on Silver Nanowires: Improved Performance through a Binary Network Design. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1654-1659.	13.8	182
9	A Bioinspired Interface Design for Improving the Strength and Electrical Conductivity of Graphene-Based Fibers. <i>Advanced Materials</i> , 2018, 30, e1706435.	21.0	138
10	Biomimetic Carbon Tube Aerogel Enables Super-Elasticity and Thermal Insulation. <i>CheM</i> , 2019, 5, 1871-1882.	11.7	136
11	Cobalt diselenide nanobelts grafted on carbon fiber felt: an efficient and robust 3D cathode for hydrogen production. <i>Chemical Science</i> , 2015, 6, 4594-4598.	7.4	114
12	Transforming ground mica into high-performance biomimetic polymeric mica film. <i>Nature Communications</i> , 2018, 9, 2974.	12.8	107
13	Temperature-Invariant Superelastic and Fatigue Resistant Carbon Nanofiber Aerogels. <i>Advanced Materials</i> , 2020, 32, e1904331.	21.0	92
14	Superior Biomimetic Nacreous Bulk Nanocomposites by a Multiscale Soft-Rigid Dual-Network Interfacial Design Strategy. <i>Matter</i> , 2019, 1, 412-427.	10.0	81
15	Biomimetic twisted plywood structural materials. <i>National Science Review</i> , 2018, 5, 703-714.	9.5	79
16	MnO Nanocrystals: A Platform for Integration of MRI and Genuine Autophagy Induction for Chemotherapy. <i>Advanced Functional Materials</i> , 2013, 23, 1534-1546.	14.9	75
17	Anti-Swelling, Robust, and Adhesive Extracellular Matrix-Mimicking Hydrogel Used as Intraoral Dressing. <i>Advanced Materials</i> , 2022, 34, e2200115.	21.0	61
18	Bioinspired hierarchical helical nanocomposite macrofibers based on bacterial cellulose nanofibers. <i>National Science Review</i> , 2020, 7, 73-83.	9.5	60

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19	Chitosan microspheres with an extracellular matrix-mimicking nanofibrous structure as cell-carrier building blocks for bottom-up cartilage tissue engineering. <i>Nanoscale</i> , 2016, 8, 309-317.	5.6	58
20	Multifunctional Bilayer Nanocomposite Guided Bone Regeneration Membrane. <i>Matter</i> , 2019, 1, 770-781.	10.0	58
21	Double-Layer Nacre-Inspired Polyimide-Mica Nanocomposite Films with Excellent Mechanical Stability for LEO Environmental Conditions. <i>Advanced Materials</i> , 2022, 34, e2105299.	21.0	56
22	A shape-memory scaffold for macroscale assembly of functional nanoscale building blocks. <i>Materials Horizons</i> , 2014, 1, 69-73.	12.2	55
23	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors. <i>Advanced Materials</i> , 2021, 33, e2102724.	21.0	51
24	PEGylated Upconverting Luminescent Hollow Nanospheres for Drug Delivery and In Vivo Imaging. <i>Small</i> , 2013, 9, 3235-3241.	10.0	49
25	Bioinspired greigite magnetic nanocrystals: chemical synthesis and biomedicine applications. <i>Scientific Reports</i> , 2013, 3, 2994.	3.3	42
26	Magnetic hydroxyapatite nanoworms for magnetic resonance diagnosis of acute hepatic injury. <i>Nanoscale</i> , 2016, 8, 1684-1690.	5.6	36
27	Radially Porous Nanocomposite Scaffolds with Enhanced Capability for Guiding Bone Regeneration In Vivo. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	36
28	Synthesis of Mesoporous Calcium Phosphate Microspheres by Chemical Transformation Process: Their Stability and Encapsulation of Carboxymethyl Chitosan. <i>Crystal Growth and Design</i> , 2013, 13, 3201-3207.	3.0	30
29	Strong and stiff Ag nanowire-chitosan composite films reinforced by Ag-S covalent bonds. <i>Nano Research</i> , 2018, 11, 410-419.	10.4	29
30	Biomimetic Lamellar Chitosan Scaffold for Soft Gingival Tissue Regeneration. <i>Advanced Functional Materials</i> , 2021, 31, 2105348.	14.9	28
31	Printable elastic silver nanowire-based conductor for washable electronic textiles. <i>Nano Research</i> , 2020, 13, 2879-2884.	10.4	27
32	Activating proper inflammation for wound-healing acceleration via mesoporous silica nanoparticle tissue adhesive. <i>Nano Research</i> , 2020, 13, 373-379.	10.4	27
33	Biomimetic discontinuous Bouligand structural design enables high-performance nanocomposites. <i>Matter</i> , 2022, 5, 1563-1577.	10.0	27
34	Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14152-14156.	13.8	19
35	Synthesis of Tunable Theranostic Fe ₃ O ₄ @Mesoporous Silica Nanospheres for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2012, 1, 327-331.	7.6	16
36	Nacreous aramid-mica bulk materials with excellent mechanical properties and environmental stability. <i>IScience</i> , 2021, 24, 101971.	4.1	15

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37	Bio-inspired clay nanosheets/polymer matrix/mineral nanofibers ternary composite films with optimal balance of strength and toughness. <i>Science China Materials</i> , 2017, 60, 909-917.	6.3	12
38	An investigation of zirconium(iv)-glycine(CP-2) hybrid complex in bovine serum albumin protein matrix under varying conditions. <i>Journal of Materials Chemistry</i> , 2011, 21, 19005.	6.7	7
39	Charged Inorganic Nanowire-Directed Mineralization of Amorphous Calcium Carbonate. <i>ChemNanoMat</i> , 2016, 2, 259-263.	2.8	7
40	Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis. <i>Angewandte Chemie</i> , 2019, 131, 14290-14294.	2.0	7
41	Bio-Inspired Synthesis of Hematite Mesocrystals by Using Xonotlite Nanowires as Growth Modifiers and Their Improved Oxygen Evolution Activity. <i>ChemSusChem</i> , 2019, 12, 3747-3752.	6.8	6
42	Regulating silver nanowire size enables efficient photoelectric conversion. <i>Science China Chemistry</i> , 2020, 63, 1046-1052.	8.2	4
43	Charged Nanowire-Directed Growth of Amorphous Calcium Carbonate Nanosheets in a Mixed Solvent for Biomimetic Composite Films. <i>Langmuir</i> , 2018, 34, 5813-5820.	3.5	2
44	Å½ctitelbild: Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis (<i>Angew. Chem.</i> 40/2019). <i>Angewandte Chemie</i> , 2019, 131, 14528-14528.	2.0	2
45	Preventing structural aging with synthetic tooth enamel. <i>Science China Materials</i> , 2017, 60, 683-684.	6.3	1
46	Gene Delivery: Synthesis of Tunable Theranostic Fe ₃ O ₄ @Mesoporous Silica Nanospheres for Biomedical Applications (<i>Adv. Healthcare Mater.</i> 3/2012). <i>Advanced Healthcare Materials</i> , 2012, 1, 326-326.	7.6	0
47	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors (<i>Adv. Mater.</i> 39/2021). <i>Advanced Materials</i> , 2021, 33, 2170308.	21.0	0