

Jie Gao

List of Publications by Year in descending order

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100
papers

4,099
citations

81900

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102
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docs citations

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times ranked

5118
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Skyline (\hat{L} , \hat{K})-Cliques Identification From Fuzzy Attributed Social Networks. IEEE Transactions on Computational Social Systems, 2022, 9, 1075-1086. | 4.4 | 2 |
| 2 | Combination of pixel-wise and region-based deep learning for pavement inspection and segmentation. International Journal of Pavement Engineering, 2022, 23, 3011-3023. | 4.4 | 11 |
| 3 | Study on the reaction performance of Ce-doped NiFe_2O_4 oxygen carriers in the process of chemical looping hydrogen production. International Journal of Energy Research, 2022, 46, 2810-2825. | 4.5 | 8 |
| 4 | Oxidation-absorption process for simultaneous removal of NO_x and SO_2 over $\text{Fe/Al}_2\text{O}_3/\text{SiO}_2$ using vaporized H_2O_2 . Chemosphere, 2022, 291, 133047. | 8.2 | 4 |
| 5 | Study on the redox performance of Cu and Ce-doped CoFe_2O_4 as oxygen carriers for chemical looping hydrogen generation. International Journal of Energy Research, 2022, 46, 7424-7440. | 4.5 | 5 |
| 6 | Enzyme-instructed self-assembly (EISA) assists the self-assembly and hydrogelation of hydrophobic peptides. Journal of Materials Chemistry B, 2022, 10, 3242-3247. | 5.8 | 13 |
| 7 | A SupraGel for efficient production of cell spheroids. Science China Materials, 2022, 65, 1655-1661. | 6.3 | 4 |
| 8 | Wearable Thermoelectric Cooler Based on a Two-Layer Hydrogel/Nickel Foam Heatsink with Two-Axis Flexibility. ACS Applied Materials & Interfaces, 2022, 14, 15317-15323. | 8.0 | 16 |
| 9 | An amelogenin-based peptide hydrogel promoted the odontogenic differentiation of human dental pulp cells. International Journal of Energy Production and Management, 2022, 9, . | 3.7 | 4 |
| 10 | Surprisingly fast assembly of the MOF film for synergetic antibacterial phototherapeutics. Green Chemistry, 2022, 24, 5930-5940. | 9.0 | 13 |
| 11 | Three-dimensional texture measurement using deep learning and multi-view pavement images. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108828. | 5.0 | 23 |
| 12 | Effect of microplastics on ecosystem functioning: Microbial nitrogen removal mediated by benthic invertebrates. Science of the Total Environment, 2021, 754, 142133. | 8.0 | 68 |
| 13 | Tandem molecular self-assembly for selective lung cancer therapy with an increase in efficiency by two orders of magnitude. Nanoscale, 2021, 13, 10891-10897. | 5.6 | 7 |
| 14 | PNOC Expressed by B Cells in Cholangiocarcinoma Was Survival Related and LAIR2 Could Be a T Cell Exhaustion Biomarker in Tumor Microenvironment: Characterization of Immune Microenvironment Combining Single-Cell and Bulk Sequencing Technology. Frontiers in Immunology, 2021, 12, 647209. | 4.8 | 25 |
| 15 | Investigation on Simultaneous Removal of SO_2 and NO over a $\text{Cu}^{\text{II}}/\text{Fe}/\text{TiO}_2$ Catalyst Using Vaporized H_2O_2 : An Analysis on SO_2 Effect. Industrial & Engineering Chemistry Research, 2021, 60, 13474-13484. | 3.7 | 6 |
| 16 | Reinforcement of power factor in N-type multiphase thin film of $\text{Si}_{1-x}\text{Ge}_x\text{Sn}_y$ by mitigating the opposing behavior of Seebeck coefficient and electrical conductivity. Applied Physics Letters, 2021, 119, . | 3.3 | 14 |
| 17 | Dynein- and kinesin- mediated intracellular transport on microtubules facilitates RABV infection. Veterinary Microbiology, 2021, 262, 109241. | 1.9 | 2 |
| 18 | Manipulating the Solubility of SnSe in SnTe by Br Doping for Improving the Thermoelectric Performance. ACS Applied Energy Materials, 2021, 4, 13027-13035. | 5.1 | 5 |

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|----|---|------|-----------|
| 19 | 2D Salphen-based heteropore covalent organic frameworks for highly efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2021, 57, 13162-13165. | 4.1 | 12 |
| 20 | Enzyme-Instructed Self-Assembly (EISA) and Hydrogelation of Peptides. <i>Advanced Materials</i> , 2020, 32, e1805798. | 21.0 | 193 |
| 21 | Monitoring and optimizing the surface roughness of high friction exposed aggregate cement concrete in exposure process. <i>Construction and Building Materials</i> , 2020, 230, 117005. | 7.2 | 22 |
| 22 | Pavement-distress detection using ground-penetrating radar and network in networks. <i>Construction and Building Materials</i> , 2020, 233, 117352. | 7.2 | 64 |
| 23 | Advances of deep learning applications in ground-penetrating radar: A survey. <i>Construction and Building Materials</i> , 2020, 258, 120371. | 7.2 | 73 |
| 24 | On the Computation of Concept Stability Based on Maximal Non-Generator for Social Networking Services. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8618. | 2.5 | 3 |
| 25 | Preorganization Increases the Self-Assembling Ability and Antitumor Efficacy of Peptide Nanomedicine. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22492-22498. | 8.0 | 17 |
| 26 | Autonomous pavement distress detection using ground penetrating radar and region-based deep learning. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 164, 108077. | 5.0 | 57 |
| 27 | Pavement defect detection with fully convolutional network and an uncertainty framework. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 832-849. | 9.8 | 48 |
| 28 | Self-healing behavior of asphalt system based on molecular dynamics simulation. <i>Construction and Building Materials</i> , 2020, 254, 119225. | 7.2 | 61 |
| 29 | A new method for CF morphology distribution evaluation and CFRC property prediction using cascade deep learning. <i>Construction and Building Materials</i> , 2019, 222, 829-838. | 7.2 | 13 |
| 30 | A novel method for multi-scale carbon fiber distribution characterization in cement-based composites. <i>Construction and Building Materials</i> , 2019, 218, 40-52. | 7.2 | 18 |
| 31 | Entry of Challenge Virus Standard (CVS) -11 into N2a cells via a clathrin-mediated, cholesterol-, dynamin-, pH-dependent endocytic pathway. <i>Virology Journal</i> , 2019, 16, 80. | 3.4 | 8 |
| 32 | Supramolecular protein glue to boost enzyme activity. <i>Science China Materials</i> , 2019, 62, 1341-1349. | 6.3 | 8 |
| 33 | Cycling comfort on asphalt pavement: Influence of the pavement-tyre interface on vibration. <i>Journal of Cleaner Production</i> , 2019, 223, 323-341. | 9.3 | 19 |
| 34 | Supramolecular Nanofibers with Superior Bioactivity to Insulin-Like Growth Factor-I. <i>Nano Letters</i> , 2019, 19, 1560-1569. | 9.1 | 71 |
| 35 | Early events in rabies virus infection—Attachment, entry, and intracellular trafficking. <i>Virus Research</i> , 2019, 263, 217-225. | 2.2 | 38 |
| 36 | Prediction of Electrical Conductivity of Fiber-Reinforced Cement-Based Composites by Deep Neural Networks. <i>Materials</i> , 2019, 12, 3868. | 2.9 | 7 |

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|----|--|------|-----------|
| 37 | Self-assembled GFFYK peptide hydrogel enhances the therapeutic efficacy of mesenchymal stem cells in a mouse hindlimb ischemia model. <i>Acta Biomaterialia</i> , 2019, 85, 94-105. | 8.3 | 35 |
| 38 | Microwave deicing for asphalt mixture containing steel wool fibers. <i>Journal of Cleaner Production</i> , 2019, 206, 1110-1122. | 9.3 | 97 |
| 39 | Innovative method for recognizing subgrade defects based on a convolutional neural network. <i>Construction and Building Materials</i> , 2018, 169, 69-82. | 7.2 | 67 |
| 40 | Ultrasensitive and specific fluorescence detection of a cancer biomarker via nanomolar binding to a guanidinium-modified calixarene. <i>Chemical Science</i> , 2018, 9, 2087-2091. | 7.4 | 113 |
| 41 | Recognition of asphalt pavement crack length using deep convolutional neural networks. <i>Road Materials and Pavement Design</i> , 2018, 19, 1334-1349. | 4.0 | 89 |
| 42 | Ratiometric detection of hydroxy radicals based on functionalized europium(III) coordination polymers. <i>Mikrochimica Acta</i> , 2018, 185, 9. | 5.0 | 15 |
| 43 | A CoOOH nanoflake-based light scattering probe for the simple and selective detection of uric acid in human serum. <i>Analytical Methods</i> , 2018, 10, 4951-4957. | 2.7 | 11 |
| 44 | Social defeat stress before pregnancy induces depressive-like behaviours and cognitive deficits in adult male offspring: correlation with neurobiological changes. <i>BMC Neuroscience</i> , 2018, 19, 61. | 1.9 | 21 |
| 45 | Autonomous microscopic bunch inspection using region-based deep learning for evaluating graphite powder dispersion. <i>Construction and Building Materials</i> , 2018, 173, 525-539. | 7.2 | 17 |
| 46 | Characterization of carbon fiber distribution in cement-based composites by Computed Tomography. <i>Construction and Building Materials</i> , 2018, 177, 134-147. | 7.2 | 47 |
| 47 | Folic Acid Derived Hydrogel Enhances the Survival and Promotes Therapeutic Efficacy of iPS Cells for Acute Myocardial Infarction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24459-24468. | 8.0 | 63 |
| 48 | Improvement of mechanical properties and chloride ion penetration resistance of cement pastes with the addition of pre-dispersed silica fume. <i>Construction and Building Materials</i> , 2018, 182, 483-492. | 7.2 | 16 |
| 49 | Evaluating the cycling comfort on urban roads based on cyclists' perception of vibration. <i>Journal of Cleaner Production</i> , 2018, 192, 531-541. | 9.3 | 42 |
| 50 | Differential calixarene receptors create patterns that discriminate glycosaminoglycans. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2685-2691. | 4.5 | 33 |
| 51 | Convolutional Neural Network for Asphalt Pavement Surface Texture Analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018, 33, 1056-1072. | 9.8 | 62 |
| 52 | Kinetic and thermodynamic modeling of Portland cement hydration at low temperatures. <i>Chemical Papers</i> , 2017, 71, 741-751. | 2.2 | 30 |
| 53 | Characteristics of dissolved organic matter (DOM) and relationship with dissolved mercury in Xiaoqing River-Laizhou Bay estuary, Bohai Sea, China. <i>Environmental Pollution</i> , 2017, 223, 19-30. | 7.5 | 90 |
| 54 | Supramolecular "Trojan Horse" for Nuclear Delivery of Dual Anticancer Drugs. <i>Journal of the American Chemical Society</i> , 2017, 139, 2876-2879. | 13.7 | 253 |

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|----|---|------|-----------|
| 55 | Design of Y-shaped targeting material for liposome-based multifunctional glioblastoma-targeted drug delivery. <i>Journal of Controlled Release</i> , 2017, 255, 132-141. | 9.9 | 74 |
| 56 | Study on the optimum rice husk ash content added in asphalt binder and its modification with bio-oil. <i>Construction and Building Materials</i> , 2017, 147, 776-789. | 7.2 | 40 |
| 57 | Recognition, location, measurement, and 3D reconstruction of concealed cracks using convolutional neural networks. <i>Construction and Building Materials</i> , 2017, 146, 775-787. | 7.2 | 125 |
| 58 | Utilization of steel slag as aggregate in asphalt mixtures for microwave deicing. <i>Journal of Cleaner Production</i> , 2017, 152, 429-442. | 9.3 | 147 |
| 59 | Supramolecular silk from a peptide hydrogel. <i>Materials Chemistry Frontiers</i> , 2017, 1, 911-915. | 5.9 | 2 |
| 60 | Dispersion of carbon fibers in cement-based composites with different mixing methods. <i>Construction and Building Materials</i> , 2017, 134, 220-227. | 7.2 | 69 |
| 61 | Glioma-Targeted Drug Delivery Enabled by a Multifunctional Peptide. <i>Bioconjugate Chemistry</i> , 2017, 28, 775-781. | 3.6 | 12 |
| 62 | Innovation for evaluating aggregate angularity based upon 3D convolutional neural network. <i>Construction and Building Materials</i> , 2017, 155, 919-929. | 7.2 | 12 |
| 63 | One-step synthesis of V ₂ O ₅ /Ni ₃ S ₂ nanoflakes for high electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23543-23549. | 10.3 | 39 |
| 64 | A Mixed Component Supramolecular Hydrogel to Improve Mice Cardiac Function and Alleviate Ventricular Remodeling after Acute Myocardial Infarction. <i>Advanced Functional Materials</i> , 2017, 27, 1701798. | 14.9 | 47 |
| 65 | Dual-emissive polystyrene@zeolitic imidazolate framework-8 composite for ratiometric detection of singlet oxygen. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9175-9182. | 5.8 | 25 |
| 66 | Portland Cement Hydration Behavior at Low Temperatures: Views from Calculation and Experimental Study. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-9. | 1.8 | 12 |
| 67 | Two-Incision Totally Thoracoscopic Approach for Mitral Valve Replacement. <i>International Heart Journal</i> , 2017, 58, 894-899. | 1.0 | 6 |
| 68 | Genome-wide DNA methylation analysis in permanent atrial fibrillation. <i>Molecular Medicine Reports</i> , 2017, 16, 5505-5514. | 2.4 | 23 |
| 69 | Lanthanide/nucleotide coordination polymers: an excellent host platform for encapsulating enzymes and fluorescent nanoparticles to enhance ratiometric sensing. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7692-7700. | 5.8 | 48 |
| 70 | Impact of anger emotional stress before pregnancy on adult male offspring. <i>Oncotarget</i> , 2017, 8, 98837-98852. | 1.8 | 6 |
| 71 | Stabilized Heptapeptide A7R for Enhanced Multifunctional Liposome-Based Tumor-Targeted Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13232-13241. | 8.0 | 58 |
| 72 | A stabilized peptide ligand for multifunctional glioma targeted drug delivery. <i>Journal of Controlled Release</i> , 2016, 243, 86-98. | 9.9 | 36 |

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|----|---|------|-----------|
| 73 | Iron phthalocyanine nanorods for ethanol sensing. <i>Micro and Nano Letters</i> , 2016, 11, 348-350. | 1.3 | 10 |
| 74 | Magnetic porous carbon nanocomposites derived from metal-organic frameworks as a sensing platform for DNA fluorescent detection. <i>Analytica Chimica Acta</i> , 2016, 940, 136-142. | 5.4 | 54 |
| 75 | Controlling the width of nanosheets by peptide length in peptoid-peptide biohybrid hydrogels. <i>RSC Advances</i> , 2016, 6, 67025-67028. | 3.6 | 7 |
| 76 | Hierarchical polypyrrole/Ni ₃ S ₂ @MoS ₂ core-shell nanostructures on a nickel foam for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 68460-68467. | 3.6 | 32 |
| 77 | Enhanced cycle performance of ultraflexible asymmetric supercapacitors based on a hierarchical MnO ₂ @NiMoO ₄ core-shell nanostructure and porous carbon. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18181-18187. | 10.3 | 73 |
| 78 | A facile one-pot hydrothermal synthesis of Co ₉ S ₈ /Ni ₃ S ₂ nanoflakes for supercapacitor application. <i>RSC Advances</i> , 2016, 6, 54142-54148. | 3.6 | 19 |
| 79 | Utilization of magnetite tailings as aggregates in asphalt mixtures. <i>Construction and Building Materials</i> , 2016, 114, 392-399. | 7.2 | 44 |
| 80 | IGF-1 C Domain-Modified Hydrogel Enhances Cell Therapy for AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 2357-2369. | 6.1 | 96 |
| 81 | RGD-modified lipid disks as drug carriers for tumor targeted drug delivery. <i>Nanoscale</i> , 2016, 8, 7209-7216. | 5.6 | 54 |
| 82 | A Peptide Ligand of Nicotine Acetylcholine Receptors for Brain-Targeted Drug Delivery. <i>Angewandte Chemie</i> , 2015, 127, 3066-3070. | 2.0 | 14 |
| 83 | AD-Peptide Ligand of Nicotine Acetylcholine Receptors for Brain-Targeted Drug Delivery (<i>Angew. Chem.</i> 10/2015). <i>Angewandte Chemie</i> , 2015, 127, 3194-3194. | 2.0 | 0 |
| 84 | D-SP5 Peptide-Modified Highly Branched Polyethylenimine for Gene Therapy of Gastric Adenocarcinoma. <i>Bioconjugate Chemistry</i> , 2015, 26, 1494-1503. | 3.6 | 20 |
| 85 | Nitric oxide releasing hydrogel enhances the therapeutic efficacy of mesenchymal stem cells for myocardial infarction. <i>Biomaterials</i> , 2015, 60, 130-140. | 11.4 | 132 |
| 86 | A stapled peptide antagonist of MDM2 carried by polymeric micelles sensitizes glioblastoma to temozolomide treatment through p53 activation. <i>Journal of Controlled Release</i> , 2015, 218, 29-35. | 9.9 | 51 |
| 87 | Liposome-based glioma targeted drug delivery enabled by stable peptide ligands. <i>Journal of Controlled Release</i> , 2015, 218, 13-21. | 9.9 | 113 |
| 88 | ZnO nanorod/nickel phthalocyanine hierarchical hetero-nanostructures with superior visible light photocatalytic properties assisted by H ₂ O ₂ . <i>RSC Advances</i> , 2015, 5, 87233-87240. | 3.6 | 25 |
| 89 | Reduction-triggered formation of EFK8 molecular hydrogel for 3D cell culture. <i>RSC Advances</i> , 2014, 4, 30168. | 3.6 | 11 |
| 90 | Quantitative evaluation of carbon fiber dispersion in cement based composites. <i>Construction and Building Materials</i> , 2014, 68, 26-30. | 7.2 | 42 |

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|-----|---|------|-----------|
| 91 | Resident intruder paradigm-induced aggression relieves depressive-like behaviors in male rats subjected to chronic mild stress. <i>Medical Science Monitor</i> , 2014, 20, 945-952. | 1.1 | 3 |
| 92 | Laboratory Investigation on Microwave Deicing Function of Micro Surfacing Asphalt Mixtures Reinforced by Carbon Fiber. <i>Journal of Testing and Evaluation</i> , 2014, 42, 498-507. | 0.7 | 35 |
| 93 | Isolation of a halophilic bacterium, <i>Bacillus</i> sp. strain NY-6 for organic contaminants removal in saline wastewater on ship. <i>Journal of Marine Science and Application</i> , 2013, 12, 245-249. | 1.7 | 3 |
| 94 | Dual enzymes regulate the molecular self-assembly of tetra-peptide derivatives. <i>Soft Matter</i> , 2011, 7, 10443. | 2.7 | 50 |
| 95 | Self-assembly of semiflexible block copolymers: 2D numerical implementation of self-consistent field theory. <i>Soft Matter</i> , 2011, 7, 5208. | 2.7 | 40 |
| 96 | Lipase-catalyzed synthesis and characterization of myristoyl maltose ester. <i>European Food Research and Technology</i> , 2011, 233, 253-258. | 3.3 | 8 |
| 97 | Functions of <i>Bacillus Subtilis</i> BS7.29 in Wasterwater Treatment. , 2010, , . | | 0 |
| 98 | Recent Progress in the Vinylic Polymerization and Copolymerization of Norbornene Catalyzed by Transition Metal Catalysts. <i>Polymer Reviews</i> , 2009, 49, 249-287. | 10.9 | 49 |
| 99 | Enzyme Promotes the Hydrogelation from a Hydrophobic Small Molecule. <i>Journal of the American Chemical Society</i> , 2009, 131, 11286-11287. | 13.7 | 170 |
| 100 | Incorporation of supramolecular hydrogels into agarose hydrogelsâ€”a potential drug delivery carrier. <i>Journal of Materials Chemistry</i> , 2009, 19, 7892. | 6.7 | 98 |