

Penghui Li

List of Publications by Year in descending order

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72
papers

4,088
citations

117625

34
h-index

114465

63
g-index

74
all docs

74
docs citations

74
times ranked

7535
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5003-5007.	13.8	479
2	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. <i>Biomaterials</i> , 2013, 34, 9264-9277.	11.4	302
3	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , 2016, 74, 144-154.	11.4	247
4	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016, 78, 27-39.	11.4	192
5	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , 2016, 28, 2511-2517.	21.0	160
6	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , 2017, 11, 4848-4858.	14.6	150
7	Engineering and functionalization of biomaterials via surface modification. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2024-2042.	5.8	138
8	Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. <i>Biomaterials</i> , 2012, 33, 3013-3024.	11.4	136
9	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , 2016, 128, 5087-5091.	2.0	116
10	PLLA Nanofibrous Paper-Based Plasmonic Substrate with Tailored Hydrophilicity for Focusing SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5391-5399.	8.0	109
11	Electrostatic Self-Assembly of Ti ₃ C ₂ T _x MXene and Gold Nanorods as an Efficient Surface-Enhanced Raman Scattering Platform for Reliable and High-Sensitivity Determination of Organic Pollutants. <i>ACS Sensors</i> , 2019, 4, 2303-2310.	7.8	106
12	Tuning the surface immunomodulatory functions of polyetheretherketone for enhanced osseointegration. <i>Biomaterials</i> , 2020, 230, 119642.	11.4	100
13	Recent advances in multifunctional magnetic nanoparticles and applications to biomedical diagnosis and treatment. <i>RSC Advances</i> , 2013, 3, 10598.	3.6	87
14	Magnetic, fluorescent, and thermo-responsive Fe ₃ O ₄ /rare earth incorporated poly(St-NIPAM) core-shell colloidal nanoparticles in multimodal optical/magnetic resonance imaging probes. <i>Biomaterials</i> , 2013, 34, 2296-2306.	11.4	85
15	Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7472-7480.	8.0	84
16	Fundamentals and applications of surface-enhanced Raman spectroscopy-based biosensors. <i>Current Opinion in Biomedical Engineering</i> , 2020, 13, 51-59.	3.4	82
17	Linker-free covalent immobilization of heparin, SDF-1 β , and CD47 on PTFE surface for antithrombogenicity, endothelialization and anti-inflammation. <i>Biomaterials</i> , 2017, 140, 201-211.	11.4	80
18	Folate-bovine serum albumin functionalized polymeric micelles loaded with superparamagnetic iron oxide nanoparticles for tumor targeting and magnetic resonance imaging. <i>Acta Biomaterialia</i> , 2015, 15, 117-126.	8.3	77

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19	Self-assembled magnetic fluorescent polymeric micelles for magnetic resonance and optical imaging. <i>Biomaterials</i> , 2014, 35, 344-355.	11.4	67
20	The evolution of gadolinium based contrast agents: from single-modality to multi-modality. <i>Nanoscale</i> , 2016, 8, 10491-10510.	5.6	66
21	Surface nano-architectures and their effects on the mechanical properties and corrosion behavior of Ti-based orthopedic implants. <i>Surface and Coatings Technology</i> , 2013, 233, 13-26.	4.8	65
22	Electrochemical properties and corrosion resistance of carbon-ion-implanted magnesium. <i>Corrosion Science</i> , 2014, 82, 173-179.	6.6	65
23	Indocyanine green-loaded gold nanostars for sensitive SERS imaging and subcellular monitoring of photothermal therapy. <i>Nanoscale</i> , 2017, 9, 11888-11901.	5.6	61
24	Degradable and Photocatalytic Antibacterial Au-TiO ₂ /Sodium Alginate Nanocomposite Films for Active Food Packaging. <i>Nanomaterials</i> , 2018, 8, 930.	4.1	57
25	Metabolizable Small Gold Nanorods: Size-dependent Cytotoxicity, Cell Uptake and <i>In Vivo</i> Biodistribution. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 789-797.	5.2	51
26	Electrochemically deposited chitosan/Ag complex coatings on biomedical NiTi alloy for antibacterial application. <i>Surface and Coatings Technology</i> , 2013, 232, 370-375.	4.8	49
27	Thermosensitive poly(N-isopropylacrylamide-co-glycidyl methacrylate) microgels for controlled drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 251-255.	5.0	49
28	Dual-Stimuli-Responsive, Polymer-Microsphere-Encapsulated CuS Nanoparticles for Magnetic Resonance Imaging Guided Synergistic Chemo-Photothermal Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1690-1701.	5.2	49
29	3D-printed nanocomposite scaffolds with tunable magnesium ionic microenvironment induce in situ bone tissue regeneration. <i>Applied Materials Today</i> , 2019, 16, 493-507.	4.3	43
30	Fluorescent Magnetic Fe ₃ O ₄ /Rare Earth Colloidal Nanoparticles for Dual-Modality Imaging. <i>Small</i> , 2013, 9, 2991-3000.	10.0	42
31	Synthesis of bright upconversion submicrocrystals for high-contrast imaging of latent-fingerprints with cyanoacrylate fuming. <i>RSC Advances</i> , 2015, 5, 79525-79531.	3.6	42
32	Evaluation of corrosion resistance and cytocompatibility of graded metal carbon film on Ti and NiTi prepared by hybrid cathodic arc/glow discharge plasma-assisted chemical vapor deposition. <i>Corrosion Science</i> , 2015, 97, 126-138.	6.6	38
33	Improved corrosion resistance on biodegradable magnesium by zinc and aluminum ion implantation. <i>Applied Surface Science</i> , 2012, 263, 608-612.	6.1	37
34	Synergistic Antibacterial Activity of Black Phosphorus Nanosheets Modified with Titanium Aminobenzenesulfanato Complexes. <i>ACS Applied Nano Materials</i> , 2019, 2, 1202-1209.	5.0	36
35	Rapid identification of two-dimensional materials via machine learning assisted optic microscopy. <i>Journal of Materiomics</i> , 2019, 5, 413-421.	5.7	36
36	Enhanced corrosion resistance and hemocompatibility of biomedical NiTi alloy by atmospheric-pressure plasma polymerized fluorine-rich coating. <i>Applied Surface Science</i> , 2014, 297, 109-115.	6.1	31

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37	In situ random co-polycondensation for preparation of reduced graphene oxide/polyimide nanocomposites with amino-modified and chemically reduced graphene oxide. <i>Journal of Materials Science</i> , 2015, 50, 3860-3874.	3.7	31
38	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. <i>CrystEngComm</i> , 2014, 16, 6141-6148.	2.6	29
39	Elastic properties and intrinsic strength of two-dimensional InSe flakes. <i>Nanotechnology</i> , 2019, 30, 335703.	2.6	27
40	Antimicrobial activity of nisin-coated polylactic acid film facilitated by cold plasma treatment. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46844.	2.6	25
41	Effects of silver plasma immersion ion implantation on the surface characteristics and cytocompatibility of titanium nitride films. <i>Surface and Coatings Technology</i> , 2015, 279, 166-170.	4.8	22
42	Competitive Reaction Pathway for Site-Selective Conjugation of Raman Dyes to Hotspots on Gold Nanorods for Greatly Enhanced SERS Performance. <i>Small</i> , 2014, 10, 4012-4019.	10.0	21
43	WO ₃ nanoparticles decorated core-shell Ti-C nanofiber arrays for high sensitive and non-enzymatic photoelectrochemical biosensing. <i>Chemical Communications</i> , 2013, 49, 7091.	4.1	20
44	Trifunctional Polymeric Nanocomposites Incorporated with Fe ₃ O ₄ /Iodine-Containing Rare Earth Complex for Computed X-ray Tomography, Magnetic Resonance, and Optical Imaging. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24523-24532.	8.0	19
45	Europium-phenolic network coated BaGdF ₅ nanocomposites for tri-modal computed tomography/magnetic resonance/luminescence imaging. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 74.	3.6	19
46	Effects of carbon dioxide plasma immersion ion implantation on the electrochemical properties of AZ31 magnesium alloy in physiological environment. <i>Applied Surface Science</i> , 2013, 286, 257-260.	6.1	18
47	Improved corrosion resistance of Mg-Y-RE alloy coated with niobium nitride. <i>Thin Solid Films</i> , 2014, 572, 85-90.	1.8	17
48	Nisin-loaded polydopamine/hydroxyapatite composites: Biomimetic synthesis, and in vitro bioactivity and antibacterial activity evaluations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125101.	4.7	17
49	Smart polymeric particle encapsulated gadolinium oxide and europium: theranostic probes for magnetic resonance/optical imaging and antitumor drug delivery. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1100-1107.	5.8	16
50	Rapid and sensitive detection of pesticide residues using dynamic surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 611-618.	2.5	16
51	Template growth of Au/Ag nanocomposites on phosphorene for sensitive SERS detection of pesticides. <i>Nanotechnology</i> , 2019, 30, 275604.	2.6	15
52	Synthesis and characterization of fluorescent copolymer containing rare earth metal complex and its interaction with DNA. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5961-5967.	2.3	13
53	In vitro corrosion inhibition on biomedical shape memory alloy by plasma-polymerized allylamine film. <i>Materials Letters</i> , 2012, 89, 51-54.	2.6	13
54	Effects of chromium ion implantation voltage on the corrosion resistance and cytocompatibility of dual chromium and oxygen plasma-ion-implanted biodegradable magnesium. <i>Surface and Coatings Technology</i> , 2013, 235, 875-880.	4.8	12

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55	Magnetic, fluorescent, and thermo-responsive poly(MMA-NIPAM-Tb(AA) ₃ Phen)/Fe ₃ O ₄ multifunctional nanospheres prepared by emulsifier-free emulsion polymerization. <i>Journal of Biomaterials Applications</i> , 2015, 30, 201-211.	2.4	12
56	Supermolecular theranostic capsules for pH-sensitive magnetic resonance imaging and multi-responsive drug delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8499-8507.	5.8	10
57	Silicon Carbide Supported Palladium-Iridium Bimetallic Catalysts for Efficient Selective Hydrogenation of Cinnamaldehyde. <i>Chinese Journal of Chemistry</i> , 2020, 38, 367-371.	4.9	9
58	Tri-functional SERS nanoplatfom with tunable plasmonic property for synergistic antibacterial activity and antibacterial process monitoring. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2266-2277.	9.4	9
59	Drawing-fabrication of multifarious nanoplasmonic platform on PLLA paper for optimized SERS performance. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 687-691.	2.5	8
60	Microporous N-doped carbon film produced by cold atmospheric plasma jet and its cell compatibility. <i>Vacuum</i> , 2014, 108, 27-34.	3.5	7
61	Effects of N ₂ /O ₂ flow rate on the surface properties and biocompatibility of nano-structured TiO ₂ /N thin films prepared by high vacuum magnetron sputtering. <i>Chinese Physics B</i> , 2015, 24, 075202.	1.4	7
62	Paramagnetic, pH and temperature-sensitive polymeric particles for anticancer drug delivery and brain tumor magnetic resonance imaging. <i>RSC Advances</i> , 2015, 5, 87512-87520.	3.6	7
63	Morphological control of gold nanorods via thermally driven bi-surfactant growth and application for detection of heavy metal ions. <i>Nanotechnology</i> , 2018, 29, 334001.	2.6	6
64	An amperometric biosensor based on Cu ₂ O@Au nanocomposites for the detection of galectin-1 via lactose-galectin interactions. <i>Nanotechnology</i> , 2019, 30, 485706.	2.6	6
65	Enhanced Bioactivity of Biomedical NiTi Through Surface Plasma Polymerization. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 220-225.	0.4	6
66	Cationic Lanthanide Luminescent Copolymer: Design, Synthesis and Interaction with DNA. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2011, 48, 832-839.	2.2	5
67	Preparation, characterization of cationic terbium luminescent copolymer and its interaction with DNA. <i>Colloid and Polymer Science</i> , 2011, 289, 1459-1468.	2.1	5
68	Facile preparation of cationic P (St-BA-METAC) copolymer nanoparticles and the investigation of their interaction with bovine serum albumin. <i>Journal of Applied Polymer Science</i> , 2012, 125, 864-869.	2.6	3
69	Gold Nanorods: Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays (<i>Adv. Mater.</i> 13/2016). <i>Advanced Materials</i> , 2016, 28, 2466-2466.	21.0	3
70	Transformation of Enhanced Glow Discharge Dynamics in Nitrogen Plasma Immersion Ion Implantation. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 553-558.	1.3	2
71	CATIONIC FLUORINATED ACRYLATE COPOLYMER EMULSION PREPARED BY MINIEMULSION POLYMERIZATION. <i>Acta Polymerica Sinica</i> , 2009, 009, 309-316.	0.0	2
72	Surface Coordination of Black Phosphorus for Robust Air and Water Stability (<i>Angew.</i>)	2.6	0