

Hong-Ping Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,418
citations

159525

30
h-index

106281

65
g-index

83
all docs

83
docs citations

83
times ranked

6261
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and visualisation of microplastics via PCA to decode Raman spectrum matrix towards imaging. <i>Chemosphere</i> , 2022, 286, 131736.	4.2	46
2	Interactions between typical functional groups of soil organic matter and mica (001) surface: A DFT study. <i>Applied Clay Science</i> , 2022, 216, 106374.	2.6	2
3	Konjac Glucomannan Induced Retarding Effects on the Early Hydration of Cement. <i>Polymers</i> , 2022, 14, 1064.	2.0	3
4	Efficient extraction of U(VI) from uranium enrichment process wastewater by amine-aminophosphonate-modified polyacrylonitrile fibers. <i>Science of the Total Environment</i> , 2022, 831, 154743.	3.9	24
5	SO ₂ adsorption and conversion on pristine and defected calcite {1 0 4} surface: A density functional theory study. <i>Applied Surface Science</i> , 2022, 596, 153575.	3.1	11
6	Breathable, Moisturizing, Anti-Oxidation SSD-PG/PVA/KGM Fibrous Membranes for Accelerating Diabetic Wound Tissue Regeneration. <i>ACS Applied Bio Materials</i> , 2022, 5, 2894-2901.	2.3	7
7	Mussel Inspired Modification of Rubber Crumbs for Improved Interfacial Adhesion in Rubber Cement Mortar. <i>Applied Composite Materials</i> , 2021, 28, 1767-1780.	1.3	3
8	Interactions between stearic acid and calcite surfaces: Experimental and computer simulation studies. <i>Biosurface and Biotribology</i> , 2021, 7, 126-132.	0.6	0
9	Significantly Raised Visible-Light Photocatalytic H ₂ Evolution on a 2D/2D ReS ₂ /In ₂ ZnS ₄ van der Waals Heterostructure. <i>Small</i> , 2021, 17, e2100296.	5.2	38
10	Significantly Raised Visible-Light Photocatalytic H ₂ Evolution on a 2D/2D ReS ₂ /In ₂ ZnS ₄ van der Waals Heterostructure (Small 32/2021). <i>Small</i> , 2021, 17, 2170168.	5.2	1
11	Adsorption and dissociation behavior of water on pristine and defected calcite {1 0 4} surfaces: A DFT study. <i>Applied Surface Science</i> , 2021, 556, 149777.	3.1	22
12	Exploring adsorption mechanism of glyphosate on pristine and elemental doped graphene. <i>Chemical Physics Letters</i> , 2021, 779, 138849.	1.2	6
13	CO ₂ reduction to CH ₄ on Cu-doped phosphorene: a first-principles study. <i>Nanoscale</i> , 2021, 13, 20541-20549.	2.8	9
14	Stress Distribution in Microregion of Core-Shell Structure Lightweight Aggregate Concrete. <i>Buildings</i> , 2021, 11, 540.	1.4	1
15	Strain engineering of selective chemical adsorption on monolayer black phosphorous. <i>Applied Surface Science</i> , 2020, 503, 144033.	3.1	25
16	Atomic-Level Insights into the Edge Active ReS ₂ Ultrathin Nanosheets for High-Efficiency Light-to-Hydrogen Conversion. , 2020, 2, 1484-1494.		65
17	Facile preparation of high-strength $\hat{\pm}$ -CaSO ₄ ·0.5H ₂ O regulated by maleic acid from phosphogypsum: experimental and molecular dynamics simulation studies. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	5
18	Polydopamine/silver hybrid coatings on soda-lime glass spheres with controllable release ability for inhibiting biofilm formation. <i>Science China Materials</i> , 2020, 63, 842-850.	3.5	10

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19	Konjac glucomannan/polyvinyl alcohol nanofibers with enhanced skin healing properties by improving fibrinogen adsorption. <i>Materials Science and Engineering C</i> , 2020, 110, 110718.	3.8	18
20	Regulating the effect of element doping on the CO ₂ capture performance of kaolinite: A density functional theory study. <i>Applied Surface Science</i> , 2020, 512, 145642.	3.1	15
21	Branched Sulfonated Polyimide/Sulfonated Methylcellulose Composite Membranes with Remarkable Proton Conductivity and Selectivity for Vanadium Redox Flow Batteries. <i>ChemElectroChem</i> , 2020, 7, 937-945.	1.7	28
22	Chitosan/graphene complex membrane for polymer electrolyte membrane fuel cell: A molecular dynamics simulation study. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25960-25969.	3.8	15
23	Atomistic understanding of interfacial interactions between bone morphogenetic protein-7 and graphene with different oxidation degrees. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1900-1908.	3.2	4
24	Porous graphene oxide/chitosan nanocomposites based on interfacial chemical interactions. <i>European Polymer Journal</i> , 2019, 119, 114-119.	2.6	22
25	Molybdenum Oxide Nanosheet-Supported Ferrous Ion Artificial Peroxidase for Visual Colorimetric Detection of Triacetone Triperoxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18985-18991.	3.2	13
26	Screw dislocation induced phonon transport suppression in SiGe superlattices. <i>Physical Review B</i> , 2019, 100, .	1.1	23
27	Atomically Dispersed Single Co Sites in Zeolitic Imidazole Frameworks Promoting High-Efficiency Visible-Light-Driven Hydrogen Production. <i>Chemistry - A European Journal</i> , 2019, 25, 9670-9677.	1.7	10
28	A Mussel-Inspired Persistent ROS-Scavenging, Electroactive, and Osteoinductive Scaffold Based on Electrochemical-Driven In Situ Nanoassembly. <i>Small</i> , 2019, 15, e1805440.	5.2	95
29	Light-Ignited Combustion: Laser-Ignited Relay-Domino-Like Reactions in Graphene Oxide/CL ₂₀ Films for High-Temperature Pulse Preparation of Bi-Layered Photothermal Membranes (Small 20/2019). <i>Small</i> , 2019, 15, 1970107.	5.2	0
30	Laser-Ignited Relay-Domino-Like Reactions in Graphene Oxide/CL ₂₀ Films for High-Temperature Pulse Preparation of Bi-Layered Photothermal Membranes. <i>Small</i> , 2019, 15, e1900338.	5.2	40
31	Understanding interfacial interactions of polydopamine and glass fiber and their enhancement mechanisms in epoxy-based laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 116, 62-71.	3.8	45
32	2D Metal Organic Framework Nanosheet: A Universal Platform Promoting Highly Efficient Visible-Light-Induced Hydrogen Production. <i>Advanced Energy Materials</i> , 2019, 9, 1803402.	10.2	200
33	Mussel-Inspired Electroactive and Antioxidative Scaffolds with Incorporation of Polydopamine-Reduced Graphene Oxide for Enhancing Skin Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7703-7714.	4.0	172
34	Photocatalytic and antibacterial properties of copper hydroxyphosphate with hierarchical superstructures synthesized by a hydrothermal method. <i>Materials Chemistry and Physics</i> , 2018, 206, 130-135.	2.0	7
35	Bio-derived three-dimensional hierarchical carbon-graphene-TiO ₂ as electrode for supercapacitors. <i>Scientific Reports</i> , 2018, 8, 4412.	1.6	24
36	Adsorption behavior of CO ₂ on pristine and doped phosphorenes: A dispersion corrected DFT study. <i>Journal of CO₂ Utilization</i> , 2018, 24, 463-470.	3.3	39

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37	Doped phosphorene for hydrogen capture: A DFT study. <i>Applied Surface Science</i> , 2018, 433, 249-255.	3.1	48
38	Crosslinked carbon nanofiber films with hierarchical pores as flexible electrodes for high performance supercapacitors. <i>Materials and Design</i> , 2018, 141, 17-25.	3.3	21
39	Conductive and Tough Hydrogels Based on Biopolymer Molecular Templates for Controlling in Situ Formation of Polypyrrole Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36218-36228.	4.0	181
40	Branched sulfonated polyimide/functionalized silicon carbide composite membranes with improved chemical stabilities and proton selectivities for vanadium redox flow battery application. <i>Journal of Materials Science</i> , 2018, 53, 14506-14524.	1.7	41
41	Metal-doped graphitic carbon nitride (g-C ₃ N ₄) as selective NO ₂ sensors: A first-principles study. <i>Applied Surface Science</i> , 2018, 455, 1116-1122.	3.1	71
42	Mussel-Inspired Tissue-Adhesive Hydrogel Based on the Polydopamine-Chondroitin Sulfate Complex for Growth-Factor-Free Cartilage Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28015-28026.	4.0	227
43	Fluorine-Containing Branched Sulfonated Polyimide Membrane for Vanadium Redox Flow Battery Applications. <i>ChemElectroChem</i> , 2018, 5, 3695-3707.	1.7	21
44	Carboxymethyl konjac glucomannan conjugated polydopamine composites for Pb(II) removal. <i>Carbohydrate Polymers</i> , 2017, 162, 62-70.	5.1	47
45	Mussel-Inspired Adhesive and Tough Hydrogel Based on Nanoclay Confined Dopamine Polymerization. <i>ACS Nano</i> , 2017, 11, 2561-2574.	7.3	749
46	Tough, self-healable and tissue-adhesive hydrogel with tunable multifunctionality. <i>NPG Asia Materials</i> , 2017, 9, e372-e372.	3.8	441
47	Understanding the interfacial interactions between dopamine and different graphenes for biomedical materials. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1156-1164.	3.2	18
48	Interaction Behaviors of Fibrinopeptide-A and Graphene with Different Functional Groups: A Molecular Dynamics Simulation Approach. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7907-7915.	1.2	10
49	Adsorption behavior of 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin on pristine and doped black phosphorene: A DFT study. <i>Chemosphere</i> , 2017, 185, 509-517.	4.2	21
50	Graphene-based materials and their potential applications. , 2017, , 267-287.		2
51	Sulfonated polyimide/chitosan composite membranes for a vanadium redox flow battery: influence of the sulfonation degree of the sulfonated polyimide. <i>Polymer Journal</i> , 2016, 48, 905-918.	1.3	19
52	Polydopamine Nanoparticles Modulating Stimuli-Responsive PNIPAM Hydrogels with Cell/Tissue Adhesiveness. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29088-29100.	4.0	227
53	Cost effective biochar gels with super capabilities for heavy metal removal. <i>RSC Advances</i> , 2016, 6, 75430-75439.	1.7	6
54	Protein-Affinitive Polydopamine Nanoparticles as an Efficient Surface Modification Strategy for Versatile Porous Scaffolds Enhancing Tissue Regeneration. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 89-100.	1.2	56

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55	Biodegradable carboxymethyl inulin as a scale inhibitor for calcite crystal growth: Molecular level understanding. <i>Desalination</i> , 2016, 381, 1-7.	4.0	59
56	Biomimetic Mineralized Hierarchical Graphene Oxide/Chitosan Scaffolds with Adsorbability for Immobilization of Nanoparticles for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1707-1717.	4.0	113
57	The molecular understanding of interfacial interactions of functionalized graphene and chitosan. <i>Applied Surface Science</i> , 2016, 360, 715-721.	3.1	23
58	Polycaprolactone/chitosan blends: Simulation and experimental design. <i>Materials and Design</i> , 2016, 90, 396-402.	3.3	23
59	Modulating the interactions between MgH ₂ and graphene using different dopants. <i>Chemical Physics Letters</i> , 2015, 623, 82-88.	1.2	3
60	Flexible, Free-Standing TiO ₂ @Graphene@Polypyrrole Composite Films as Electrodes for Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3903-3910.	1.5	126
61	Electrospun Cu ₂ ZnSnS ₄ microfibers with strong (112) preferred orientation: fabrication and characterization. <i>RSC Advances</i> , 2015, 5, 15749-15755.	1.7	9
62	Bioadhesive Microporous Architectures by Self-Assembling Polydopamine Microcapsules for Biomedical Applications. <i>Chemistry of Materials</i> , 2015, 27, 848-856.	3.2	81
63	An electrochemical sensor based on iron(II,III)-graphene oxide@molecularly imprinted polymer nanoparticles for interleukin-8 detection in saliva. <i>Analytical Methods</i> , 2015, 7, 7784-7791.	1.3	34
64	Super-Paramagnetic Nanoparticles by Surface Imprinting on Graphene Oxide Modified Iron (II, III) with Application for the Determination of Ovalbumin by Absorption Spectroscopy. <i>Analytical Letters</i> , 2015, 48, 2463-2481.	1.0	6
65	Computer simulation of biomolecule@biomaterial interactions at surfaces and interfaces. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 032001.	1.7	40
66	Band structure of graphene modulated by Ti or N dopants and applications in gas sensing. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 61, 224-230.	1.3	24
67	Surface Plasmon Resonance-based Inhibitive Immunoassay Coupled with Dummy Template Molecularly Imprinted Polymer Solid Phase Extraction for On-line Analysis of Trace Clenbuterol. <i>Journal of the Chinese Chemical Society</i> , 2014, 61, 1357-1364.	0.8	2
68	Density functional theory study of interactions between glycine and TiO ₂ /graphene nanocomposites. <i>Chemical Physics Letters</i> , 2014, 599, 86-91.	1.2	23
69	Out-of-Cell Oxygen Diffusivity Evaluation in Lithium-Air Batteries. <i>ChemElectroChem</i> , 2014, 1, 2052-2057.	1.7	6
70	DFT study of adsorption and dissociation behavior of H ₂ S on Fe-doped graphene. <i>Applied Surface Science</i> , 2014, 317, 511-516.	3.1	135
71	Adsorption of 2,3,7,8-tetrachlorodibenzo-p-dioxins on intrinsic, defected, and Ti (N, Ag) doped graphene: a DFT study. <i>Journal of Molecular Modeling</i> , 2014, 20, 2238.	0.8	15
72	Effects of O-deficiency on the interaction between rutile and Arg: A density functional theory study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 83-89.	1.3	7

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73	Density functional theory calculations on the adsorption of formaldehyde and other harmful gases on pure, Ti-doped, or N-doped graphene sheets. <i>Applied Surface Science</i> , 2013, 283, 559-565.	3.1	113
74	Density functional theory calculations of hydrogen adsorption on Ti-, Zn-, Zr-, Al-, and N-doped and intrinsic graphene sheets. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14269-14275.	3.8	92
75	DFT Study of the Adsorption of Aspartic Acid on Pure, N-Doped, and Ca-Doped Rutile (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18572-18581.	1.5	53
76	Hexagonal hydroxyapatite formation on TiO ₂ nanotubes under urea modulation. <i>CrystEngComm</i> , 2011, 13, 3741.	1.3	29
77	Effects of aqueous environment and surface defects on Arg-Gly-Asp peptide adsorption on titanium oxide surfaces investigated by molecular dynamics simulation. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 466-476.	2.1	37
78	A hybrid 3D spatial data structure for the integration of aboveground, ground and underground objects. , 2010, , .		1
79	On the Grid-Enabled Geospatial Information Workflow. , 2009, , .		0
80	Molecular dynamics simulations on the interaction between polymers and hydroxyapatite with and without coupling agents. <i>Acta Biomaterialia</i> , 2009, 5, 1169-1181.	4.1	89
81	Molecular dynamics simulation of RGD peptide adsorption on titanium oxide surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3437-3441.	1.7	17
82	Study on early hydration of gypsum-based materials containing different chemical admixtures by isothermal calorimetry and oscillation rheology. <i>Journal of Thermal Analysis and Calorimetry</i> , 0, , 1.	2.0	3