Yanmei Yang

List of Publications by Year
in descending order

53 papers	1,980 citations	430754 18 h-index	243529 44 g-index
54 all docs	54 docs citations	54 times ranked	3199 citing authors

#	Article	IF	Citations
1	Ultrafast and Directional Diffusion of Lithium in Phosphorene for High-Performance Lithium-Ion Battery. Nano Letters, 2015, 15, 1691-1697.	4.5	628
2	pH-Switchable Antimicrobial Nanofiber Networks of Hydrogel Eradicate Biofilm and Rescue Stalled Healing in Chronic Wounds. ACS Nano, 2019, 13, 11686-11697.	7.3	287
3	Bacteria-Activated Theranostic Nanoprobes against Methicillin-Resistant Staphylococcus aureus Infection. ACS Nano, 2017, 11, 4428-4438.	7.3	152
4	Bacterial species-identifiable magnetic nanosystems for early sepsis diagnosis and extracorporeal photodynamic blood disinfection. Nanoscale, 2018, 10, 132-141.	2.8	94
5	Prediction of a flexible anode material for Li/Na ion batteries: Phosphorous carbide monolayer (Î±-PC). Carbon, 2019, 141, 444-450.	5.4	70
6	Tuning the electronic and magnetic properties of porous graphene-like carbon nitride through 3d transition-metal doping. Carbon, 2017, 117, 120-125.	5.4	52
7	Fluorescence switch of gold nanoclusters stabilized with bovine serum albumin for efficient and sensitive detection of cysteine and copper ion in mice with Alzheimer's disease. Talanta, 2021, 223, 121745.	2.9	52
8	pH-switchable nanozyme cascade catalysis: a strategy for spatialâ€“temporal modulation of pathological wound microenvironment to rescue stalled healing in diabetic ulcer. Journal of Nanobiotechnology, 2022, 20, 12.	4.2	50
9	Bacteria-Instructed Click Chemistry between Functionalized Gold Nanoparticles for Point-of-Care Microbial Detection. ACS Applied Materials & Interfaces, 2019, 11, 23093-23101.	4.0	48
10	Multi-omics Approach Reveals Distinct Differences in Left- and Right-Sided Colon Cancer. Molecular Cancer Research, 2018, 16, 476-485.	1.5	47
11	A Simple 3D-Printed Enzyme Reactor Paper Spray Mass Spectrometry Platform for Detecting BuChE Activity in Human Serum. Analytical Chemistry, 2019, 91, 12874-12881.	3.2	43
12	Subtyping of microsatellite instability-high colorectal cancer. Cell Communication and Signaling, 2019, 17, 79.	2.7	42
13	Hypoxia Correlates With Poor Survival and M2 Macrophage Infiltration in Colorectal Cancer. Frontiers in Oncology, 2020, 10, 566430.	1.3	34
14	High-efficiency helium separation through an inorganic graphenylene membrane: a theoretical study. Physical Chemistry Chemical Physics, 2020, 22, 9789-9795.	1.3	32
15	Orientational DNA binding and directed transport on nanomaterial heterojunctions. Nanoscale, 2020, 12, 5217-5226.	2.8	29
16	Photo-assisted high performance single atom electrocatalysis of the N₂ reduction reaction by a Mo-embedded covalent organic framework. Journal of Materials Chemistry A, 2021, 9, 19949-19957.	5.2	27
17	Rational synthesis of Pd nanoparticle-embedded reduced graphene oxide frameworks with enhanced selective catalysis in water. Nanoscale, 2016, 8, 2787-2794.	2.8	26
18	Heterogeneity of MSI-H gastric cancer identifies a subtype with worse survival. Journal of Medical Genetics, 2021, 58, 12-19.	1.5	22

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19	Key residues of the receptor binding domain in the spike protein of SARS-CoV-2 mediating the interactions with ACE2: a molecular dynamics study. Nanoscale, 2021, 13, 9364-9370.	2.8	22
20	Tumor heterogeneity uncovered by dynamic expression of long noncoding RNA at single-cell resolution. Cancer Genetics, 2015, 208, 581-586.	0.2	16
21	Efficient isotropic water desalination in anisotropic lamellar nano-channels formed by layered black phosphorus membrane. Desalination, 2021, 504, 114962.	4.0	16
22	Anisotropic protein diffusion on nanosurface. Nanoscale, 2020, 12, 5209-5216.	2.8	15
23	Probing the Microstructure in Pure Al & Cu Melts: Theory Meets Experiment. Frontiers in Chemistry, 2020, 8, 607.	1.8	13
24	Sensitive Quantification of MicroRNA in Blood through Multiâ€amplification Toeholdâ€Mediated DNAâ€Strandâ€Displacement Paperâ€Spray Mass Spectrometry (TSDâ€PS MS). Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
25	Tuning the electronic and magnetic properties of MoS2 nanotubes with vacancy defects. RSC Advances, 2019, 9, 17203-17210.	1.7	12
26	Spontaneous DNA translocation through a van der Waals heterostructure nanopore for single-molecule detection. Nanoscale Advances, 2021, 3, 5941-5947.	2.2	12
27	PNTCDA: a promising versatile organic electrode material for alkali-metal ion batteries. Journal of Materials Chemistry A, 2018, 6, 24869-24876.	5.2	11
28	Strain-tunable CO₂ storage by black phosphorene and Î±-PC from combined first principles and molecular dynamics studies. Physical Chemistry Chemical Physics, 2019, 21, 20107-20117.	1.3	11
29	Deciphering molecular properties of hypermutated gastrointestinal cancer. Journal of Cellular and Molecular Medicine, 2019, 23, 370-379.	1.6	10
30	Realization of N-Type Semiconducting of Phosphorene through Surface Metal Doping and Work Function Study. Journal of Nanomaterials, 2018, 2018, 1-9.	1.5	9
31	Interface-enhanced CO₂ capture via the synthetic effects of a nanomaterial-supported ionic liquid thin film. Nanoscale Advances, 2021, 3, 1397-1403.	2.2	9
32	Efficient anisotropic desalination by layer-stacked black phosphorus carbide (Î±-PC) membrane. Desalination, 2022, 522, 115422.	4.0	9
33	Mild lipid extraction and anisotropic cell membrane penetration of Î±-phase phosphorene carbide nanoribbons by molecular dynamics simulation studies. Physical Chemistry Chemical Physics, 2020, 22, 23268-23275.	1.3	7
34	Tuning the binding behaviors of a protein YAP65WW domain on graphenic nano-sheets with boron or nitrogen atom doping. Nanoscale Advances, 2020, 2, 4539-4546.	2.2	7
35	Understanding CO2 capture kinetics and energetics by ionic liquids with molecular dynamics simulation. RSC Advances, 2020, 10, 13968-13974.	1.7	7
36	Defect-Induced Double-Stranded DNA Unwinding on Graphene. Journal of Physical Chemistry B, 2021, 125, 2833-2840.	1.2	6

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37	Pan-organ transcriptome variation across 21 cancer types. Oncotarget, 2017, 8, 6809-6818.	0.8	6
38	Self-assembly of ultra-small-sized carbon nanoparticles in lipid membrane disrupts its integrity. Nanoscale Advances, 2021, 4, 163-172.	2.2	6
39	h-FBN assisted negative ion paper spray for the sensitive detection of small molecules. Chemical Communications, 2021, 57, 6612-6615.	2.2	5
40	Binding Process and Free Energy Characteristics of Cellulose Chain into the Catalytic Domain of Cellobiohydrolase TrCel7A. Journal of Physical Chemistry B, 2019, 123, 8853-8860.	1.2	4
41	CPuORF correlates with miRNA responsive elements on protein evolutionary rates. Biochemical and Biophysical Research Communications, 2014, 452, 66-71.	1.0	3
42	A High-Throughput Screening Method for Determining the Optimized Synthesis Conditions of Quinoxaline Derivatives Using Microdroplet Reaction. Frontiers in Chemistry, 2020, 8, 789.	1.8	3
43	Exploring the biotoxicity of carbon boride nanosheets (BC₃) based on the villin headpiece protein model. Journal Physics D: Applied Physics, 2022, 55, 175403.	1.3	3
44	Efficient Helium and Helium Isotopes Separation by Phosphorus Carbide P 2 C 3 Membrane. Advanced Theory and Simulations, 0, , 2100327.	1.3	2
45	Structural and energetic features of the dimerization of the main proteinase of SARS-CoV-2 using molecular dynamic simulations. Physical Chemistry Chemical Physics, 2022, 24, 4324-4333.	1.3	2
46	Hypermutated tumours across 11 cancer types show three distinct immune subtypes. European Journal of Cancer, 2021, 148, 230-238.	1.3	1
47	Tuning the Water Desalination Performance of Graphenic Layered Nanomaterials by Element Doping and Inter-Layer Spacing*. Chinese Physics Letters, 2020, 37, 116101.	1.3	1
48	Efficient Helium Separation with Two-Dimensional Metalâ€“Organic Framework Fe/Ni-PTC: A Theoretical Study. Membranes, 2021, 11, 927.	1.4	1
49	Sensitive Quantification of MicroRNA in Blood through Multiâ€amplification Toeholdâ€Mediated DNAâ€Strandâ€Displacement Paperâ€Spray Mass Spectrometry (TSDâ€PS MS). Angewandte Chemie, 2022, 134, .	1.6	1
50	Sub-nanometer-sized carbon nanoparticle shows higher biocompatibility to DNA than nanometer-sized nanoparticles. Journal Physics D: Applied Physics, 2022, 55, 295401.	1.3	1
51	Strain-tunable self-passivated porous phosphorene for high-efficiency helium separation. Journal Physics D: Applied Physics, 2022, 55, 315501.	1.3	1
52	Surface Coated NIR Light-Responsive Nanostructures for Imaging and Therapeutic Applications. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 135-165.	0.1	0
53	Identification of of a PAX2 mutation from maternal mosaicism causes recurrent renal disorder in siblings. Clinica Chimica Acta, 2022, 525, 23-28.	0.5	0