

Zhongjian Xie

List of Publications by Year in descending order

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102
papers

7,921
citations

49802

46
h-index

50605

87
g-index

109
all docs

109
docs citations

109
times ranked

10107
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in nanomaterials for photodynamic therapy applications: Status and challenges. <i>Biomaterials</i> , 2020, 237, 119827.	11.8	529
2	Emerging combination strategies with phototherapy in cancer nanomedicine. <i>Chemical Society Reviews</i> , 2020, 49, 8065-8087.	40.3	484
3	Ultrathin 2D Nonlayered Tellurium Nanosheets: Facile Liquid-Phase Exfoliation, Characterization, and Photoresponse with High Performance and Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705833.	16.5	374
4	Photothermal cancer immunotherapy by erythrocyte membrane-coated black phosphorus formulation. <i>Journal of Controlled Release</i> , 2019, 296, 150-161.	10.2	329
5	Overcoming barriers in photodynamic therapy harnessing nano-formulation strategies. <i>Chemical Society Reviews</i> , 2021, 50, 9152-9201.	40.3	305
6	Calcium regulation of keratinocyte differentiation. <i>Expert Review of Endocrinology and Metabolism</i> , 2012, 7, 461-472.	2.5	255
7	Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2005223.	16.5	241
8	Ultrasmall Bismuth Quantum Dots: Facile Liquid-Phase Exfoliation, Characterization, and Application in High-Performance UV-Vis Photodetector. <i>ACS Photonics</i> , 2018, 5, 621-629.	6.9	239
9	The Rise of 2D Photothermal Materials beyond Graphene for Clean Water Production. <i>Advanced Science</i> , 2020, 7, 1902236.	12.4	220
10	Few-Layer Tin Sulfide: A Promising Black-Phosphorus Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in All-Optical Switching and Wavelength Conversion. <i>Advanced Optical Materials</i> , 2018, 6, 1700985.	7.9	219
11	Effective string theory. <i>Physical Review Letters</i> , 1991, 67, 1681-1684.	8.0	215
12	Conceptually Novel Black Phosphorus/Cellulose Hydrogels as Promising Photothermal Agents for Effective Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701510.	8.5	198
13	Two-dimensional non-layered selenium nanoflakes: facile fabrications and applications for self-powered photo-detector. <i>Nanotechnology</i> , 2019, 30, 114002.	2.7	172
14	2D Nonlayered Selenium Nanosheets: Facile Synthesis, Photoluminescence, and Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2017, 5, 1700884.	7.9	171
15	Revealing of the ultrafast third-order nonlinear optical response and enabled photonic application in two-dimensional tin sulfide. <i>Photonics Research</i> , 2019, 7, 494.	6.9	165
16	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. <i>Light: Science and Applications</i> , 2020, 9, 161.	16.2	162
17	Black-phosphorus-analogue tin monosulfide: an emerging optoelectronic two-dimensional material for high-performance photodetection with improved stability under ambient/harsh conditions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9582-9593.	5.6	158
18	Biocompatible Two-Dimensional Titanium Nanosheets for Multimodal Imaging-Guided Cancer Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22129-22140.	8.3	154

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19	Solar-Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. <i>Solar Rrl</i> , 2020, 4, 1900400.	6.0	143
20	Black phosphorus analogue tin sulfide nanosheets: synthesis and application as near-infrared photothermal agents and drug delivery platforms for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4747-4755.	5.9	141
21	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2022, 122, 1127-1207.	51.4	133
22	Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2007584.	16.5	130
23	Recent Advances in Semiconducting Monoelemental Selenium Nanostructures for Device Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2003301.	16.5	125
24	Current status and prospects of memristors based on novel 2D materials. <i>Materials Horizons</i> , 2020, 7, 1495-1518.	12.8	114
25	Inactivation of the Calcium Sensing Receptor Inhibits E-cadherin-mediated Cell-Cell Adhesion and Calcium-induced Differentiation in Human Epidermal Keratinocytes. <i>Journal of Biological Chemistry</i> , 2008, 283, 3519-3528.	3.5	109
26	Two-Dimensional Borophene: Properties, Fabrication, and Promising Applications. <i>Research</i> , 2020, 2020, 2624617.	5.9	102
27	Editorial: Vitamin D Binding Protein, Total and Free Vitamin D Levels in Different Physiological and Pathophysiological Conditions. <i>Frontiers in Endocrinology</i> , 2020, 11, 40.	3.5	100
28	The Recruitment of Phosphatidylinositol 3-Kinase to the E-cadherin-Catenin Complex at the Plasma Membrane Is Required for Calcium-induced Phospholipase C- β 1 Activation and Human Keratinocyte Differentiation. <i>Journal of Biological Chemistry</i> , 2007, 282, 8695-8703.	3.5	97
29	Calcium-induced Human Keratinocyte Differentiation Requires src- and fyn-mediated Phosphatidylinositol 3-Kinase-dependent Activation of Phospholipase C- β 1. <i>Molecular Biology of the Cell</i> , 2005, 16, 3236-3246.	2.5	91
30	Functional two-dimensional black phosphorus nanostructures towards next-generation devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12433-12473.	10.5	87
31	From phosphorus to phosphorene: Applications in disease theranostics. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214110.	19.6	86
32	Hairless Suppresses Vitamin D Receptor Transactivation in Human Keratinocytes. <i>Endocrinology</i> , 2006, 147, 314-323.	2.8	77
33	Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. <i>Biomaterials</i> , 2020, 260, 120339.	11.8	76
34	Phospholipase C- β 1 Is Required for Calcium-induced Keratinocyte Differentiation. <i>Journal of Biological Chemistry</i> , 1999, 274, 20421-20424.	3.5	70
35	Cloning of the Human Phospholipase C- β 1 Promoter and Identification of a DR6-type Vitamin D-responsive Element. <i>Journal of Biological Chemistry</i> , 1997, 272, 6573-6577.	3.5	65
36	Photodynamic immunotherapy of cancers based on nanotechnology: recent advances and future challenges. <i>Journal of Nanobiotechnology</i> , 2021, 19, 160.	9.3	64

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37	Exercise-induced oxidative stress and muscle performance in healthy women: role of vitamin E supplementation and endogenous oestradiol. <i>European Journal of Applied Physiology</i> , 2001, 84, 141-147.	2.5	63
38	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , 2021, 33, e2102562.	24.3	59
39	Towards a Gliding Robotic Dolphin: Design, Modeling, and Experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 260-270.	6.1	58
40	Tellurene Nanoflake-Based NO ₂ Sensors with Superior Sensitivity and a Sub-Parts-per-Billion Detection Limit. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47704-47713.	8.3	58
41	Borophene-based biomedical applications: Status and future challenges. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213549.	19.6	57
42	Nano-immunotherapy: Unique mechanisms of nanomaterials in synergizing cancer immunotherapy. <i>Nano Today</i> , 2021, 36, 101023.	12.3	56
43	Phosphatidylinositol-4-phosphate 5-kinase 1 β Mediates Extracellular Calcium-induced Keratinocyte Differentiation. <i>Molecular Biology of the Cell</i> , 2009, 20, 1695-1704.	2.5	55
44	Elastocaloric effect dependence on pre-elongation in natural rubber. <i>Applied Physics Letters</i> , 2015, 107, .	3.2	50
45	Phospholipase C- β 1 is required for the epidermal growth factor receptor-induced squamous cell carcinoma cell mitogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 296-300.	2.2	47
46	Hydrogel Microcapsules with Dynamic pH-Responsive Properties from Methacrylic Anhydride. <i>Macromolecules</i> , 2018, 51, 5798-5805.	5.1	47
47	Recent advances in the development of nanomedicines for the treatment of ischemic stroke. <i>Bioactive Materials</i> , 2021, 6, 2854-2869.	16.1	44
48	Comparison of direct and indirect measurement of the elastocaloric effect in natural rubber. <i>Applied Physics Letters</i> , 2016, 108, .	3.2	41
49	Degradation of polypropylene in the human eye: A sem-study. <i>Documenta Ophthalmologica</i> , 1986, 64, 143-152.	2.2	40
50	Black Phosphorus: Degradation Mechanism, Passivation Method, and Application for In Situ Tissue Regeneration. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001538.	4.1	39
51	Comparison of elastocaloric effect of natural rubber with other caloric effects on different-scale cooling application cases. <i>Applied Thermal Engineering</i> , 2017, 111, 914-926.	6.1	38
52	Prodrug-Loaded Zirconium Carbide Nanosheets as a Novel Biophotonic Nanoplatfrom for Effective Treatment of Cancer. <i>Advanced Science</i> , 2020, 7, 2001191.	12.4	38
53	Progress in the therapeutic applications of polymer-decorated black phosphorus and black phosphorus analog nanomaterials in biomedicine. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7076-7120.	5.9	38
54	Determination of <i>Chlamydia trachomatis</i> seroprevalence in blood donor populations using an investigational enzyme immunoassay. <i>Transfusion</i> , 2014, 54, 2237-2244.	1.8	37

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55	Advanced nanomaterials for hypoxia tumor therapy: challenges and solutions. <i>Nanoscale</i> , 2020, 12, 21497-21518.	5.8	37
56	Recent advances in photodynamic therapy based on emerging two-dimensional layered nanomaterials. <i>Nano Research</i> , 2020, 13, 1485-1508.	10.6	37
57	Emerging 2D pnictogens for catalytic applications: status and challenges. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12887-12927.	10.5	35
58	Temperature dependence of the elastocaloric effect in natural rubber. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2112-2116.	2.2	34
59	2D materials for bone therapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113970.	14.3	31
60	Intravascular Coagulation in Promyelocytic Leukemia: A Case Study Including Ultrastructure. <i>American Journal of Clinical Pathology</i> , 1971, 55, 677-685.	0.7	28
61	Glass bead purification of plasmid template DNA for high throughput sequencing of mammalian genomes. <i>Nucleic Acids Research</i> , 2002, 30, 32e-32.	14.0	27
62	Inhibition of 1,25-Dihydroxyvitamin-D-Induced Keratinocyte Differentiation by Blocking the Expression of Phospholipase C- β 1. <i>Journal of Investigative Dermatology</i> , 2001, 117, 1250-1254.	0.7	26
63	Critical role for the catalytic activity of phospholipase C- β 1 in epidermal growth factor-induced cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 425-428.	2.2	25
64	Differential Regulation of Vitamin D Responsive Elements in Normal and Transformed Keratinocytes. <i>Journal of Investigative Dermatology</i> , 1998, 110, 730-733.	0.7	22
65	Characteristics, properties, synthesis and advanced applications of 2D graphdiyne <i>versus</i> graphene. <i>Materials Chemistry Frontiers</i> , 2022, 6, 528-552.	5.9	20
66	Prevalence of Vitamin D Inadequacy Among Chinese Postmenopausal Women: A Nationwide, Multicenter, Cross-Sectional Study. <i>Frontiers in Endocrinology</i> , 2018, 9, 782.	3.5	17
67	Light-induced tumor theranostics based on chemical-exfoliated borophene. <i>Light: Science and Applications</i> , 2022, 11, .	16.2	17
68	Fatigue effect of elastocaloric properties in natural rubber. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150302.	3.5	16
69	Synergistic Photothermal and Chemical Therapy by Smart Dual-Functional Graphdiyne Nanosheets for Treatment of Parkinson's Disease. <i>Advanced Therapeutics</i> , 2021, 4, 2100082.	3.4	15
70	Squamous Cell Carcinomas Fail to Respond to the Prodifferentiating Actions of 1,25(OH)2D3: Why?. <i>Recent Results in Cancer Research</i> , 2003, 164, 111-122.	0.0	14
71	The SH3 domain, but not the catalytic domain, is required for phospholipase C- β 1 to mediate epidermal growth factor-induced mitogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 719-722.	2.2	13
72	Recent Advance of Tellurium for Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 551-559.	2.7	13

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73	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , 2021, 10, 3339-3358.	6.3	13
74	Three birds with one stone: oxygen self-supply engineering palladium nanocluster/titanium carbide hybrid for single-NIR laser-triggered synergistic photodynamic-photothermal therapy. <i>Nanophotonics</i> , 2022, 11, 5061-5075.	6.3	12
75	The role of phospholipase C- β 1 in $1\alpha,25$ -dihydroxyvitamin D3 regulated keratinocyte differentiation. <i>Steroids</i> , 2001, 66, 339-345.	1.9	11
76	pH-responsive black phosphorus quantum dots for tumor-targeted photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102429.	2.7	11
77	Cord serum dipeptidylâ€peptidase 4 activity in gestational diabetes. <i>European Journal of Clinical Investigation</i> , 2015, 45, 196-203.	3.4	10
78	p120â€catenin suppresses proliferation and tumor growth of oral squamous cell carcinoma via inhibiting nuclear phospholipase C- β 1 signaling. <i>Journal of Cellular Physiology</i> , 2020, 235, 9399-9413.	4.2	10
79	Exposure to waterpipe smoke and blood heavy metal concentrations. <i>Environmental Research</i> , 2021, 200, 111460.	7.7	10
80	The effect of prednisolone on symptom severity in schizophrenia: A placebo-controlled, randomized controlled trial. <i>Schizophrenia Research</i> , 2021, 230, 79-86.	2.1	9
81	Re-imagining the Making of Climate Law and Policy in Citizensâ€™ Assemblies. <i>Transnational Environmental Law</i> , 2022, 11, 235-261.	1.3	9
82	Nanomaterials for neurodegenerative diseases: Molecular mechanisms guided design and applications. <i>Nano Research</i> , 2022, 15, 3299-3322.	10.6	7
83	p120â€catenin Is Required for Dietary Calcium Suppression of Oral Carcinogenesis in Mice. <i>Journal of Cellular Physiology</i> , 2017, 232, 1360-1367.	4.2	6
84	Fine structure of the first and second generation merozoites of <i>Eimeria necatrix</i> . <i>Zeitschrift FÃ¼r Parasitenkunde (Berlin, Germany)</i> , 1974, 44, 133-137.	0.7	4
85	Two distinct mechanisms by which phospholipase C- β 1 mediates epidermal growth factor-induced keratinocyte migration and proliferation. <i>Journal of Dermatological Science</i> , 2012, 67, 199-202.	2.2	4
86	Liquid-Phase Exfoliation of Black Sesame to Create A Nanoplatfor for <i>In Vitro</i> Photoluminescence and Photothermal Therapy. <i>Nanomedicine</i> , 2020, 15, 2041-2052.	3.5	4
87	p120â€catenin is required for regulating epidermal proliferation, differentiation, and barrier function. <i>Journal of Cellular Physiology</i> , 2019, 234, 427-432.	4.2	4
88	Material-based engineering of bacteria for cancer diagnosis and therapy. <i>Applied Materials Today</i> , 2021, 25, 101212.	4.5	4
89	New insights to atherosclerosis management: Role of nanomaterials. <i>Applied Materials Today</i> , 2022, 27, 101466.	4.5	4
90	Oxygen-supplied electrotherapy for enhanced photodynamic synergistic therapy overcomes hypoxia tumor microenvironment. <i>Nanophotonics</i> , 2022, 11, 5077-5088.	6.3	4

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91	ECG changes during cerebral angiography. <i>Neuroradiology</i> , 1984, 26, 369-373.	2.3	3
92	Phosphoprotein Phosphatase 1 Is Required for Extracellular Calcium-Induced Keratinocyte Differentiation. <i>BioMed Research International</i> , 2016, 2016, 1-11.	2.0	3
93	Comparative Performance Analysis of Domain Name based Location Management. , 2006, , .		1
94	GPU Accelerated optical light propagation in CORSIKA8. , 2021, , .		1
95	Live Imaging of Chemokine Receptors in Zebrafish Neutrophils During Wound Responses. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	1
96	Deployment pattern. , 2011, , .		0
97	P307 Trajectories of Myocardial Strain Across the Spectrum of Aortic Stenosis. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, .	1.1	0
98	The influence of sleep and time of day on school performance: causes, consequences and possible remedies. <i>PPmP Psychotherapie Psychosomatik Medizinische Psychologie</i> , 2018, 68, e24-e25.	0.4	0
99	À propos de «Rhétorique, philologie, herméneutique». <i>Revue De Philologie De Litterature Et D Histoire Anciennes</i> , 2022, Tome XCIV, 155-177.	0.0	0
100	Detection of biological loads in sewage using the automated robot-driven photoelectrochemical biosensing platform. <i>Exploration</i> , 0, , .	13.9	0
101	Ciberativismo e a ascensão do design de moda produzido pelas comunidades periféricas brasileiras nas mídias digitais. , 2024, , .		0
102	Bifunctional black phosphorus quantum dots platform: Delivery and remarkable immunotherapy enhancement of STING agonist. <i>Biomaterials</i> , 2024, 311, 122696.	11.8	0