Xianfeng Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

123 papers	13,262 citations	30047 54 h-index	21521 114 g-index
123 all docs	123 docs citations	123 times ranked	18105 citing authors

#	Article	IF	Citations
1	High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys. Science, 2008, 320, 634-638.	6.0	4,843
2	Circulation and long-term fate of functionalized, biocompatible single-walled carbon nanotubes in mice probed by Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1410-1415.	3.3	1,037
3	A cell nanoinjector based on carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8218-8222.	3.3	366
4	Porous Fe3O4/carbon composite electrode material prepared from metal-organic framework template and effect of temperature on its capacitance. Nano Energy, 2014, 8, 133-140.	8.2	232
5	Hierarchical Composite Electrodes of Nickel Oxide Nanoflake 3D Graphene for Highâ€Performance Pseudocapacitors. Advanced Functional Materials, 2014, 24, 6372-6380.	7.8	210
6	Hierarchical composite structure of few-layers MoS 2 nanosheets supported by vertical graphene on carbon cloth for high-performance hydrogen evolution reaction. Nano Energy, 2015, 18, 196-204.	8.2	191
7	Dry-coated microprojection array patches for targeted delivery of immunotherapeutics to the skin. Journal of Controlled Release, 2009, 139, 212-220.	4.8	175
8	Improving the reach of vaccines to low-resource regions, with a needle-free vaccine delivery device and long-term thermostabilization. Journal of Controlled Release, 2011, 152, 349-355.	4.8	166
9	Graphitic carbon nitride nanosheet@metalâ€“organic framework coreâ€“shell nanoparticles for photo-chemo combination therapy. Nanoscale, 2015, 7, 17299-17305.	2.8	160
10	Potent Immunity to Low Doses of Influenza Vaccine by Probabilistic Guided Micro-Targeted Skin Delivery in a Mouse Model. PLoS ONE, 2010, 5, e10266.	1.1	154
11	Nanopatchâ€Targeted Skin Vaccination against West Nile Virus and Chikungunya Virus in Mice. Small, 2010, 6, 1776-1784.	5.2	150
12	Self-Monitoring and Self-Delivery of Photosensitizer-Doped Nanoparticles for Highly Effective Combination Cancer Therapy in Vitro and in Vivo. ACS Nano, 2015, 9, 9741-9756.	7.3	149
13	Carbon Nanoparticle-based Ratiometric Fluorescent Sensor for Detecting Mercury Ions in Aqueous Media and Living Cells. ACS Applied Materials & Interfaces, 2014, 6, 21270-21278.	4.0	144
14	Three-dimensional Snâ€“graphene anode for high-performance lithium-ion batteries. Nanoscale, 2013, 5, 10599.	2.8	141
15	Targeted, Needleâ€Free Vaccinations in Skin using Multilayered, Denselyâ€Packed Dissolving Microprojection Arrays. Small, 2010, 6, 1785-1793.	5.2	136
16	The viscoelastic, hyperelastic and scale dependent behaviour of freshly excised individual skin layers. Biomaterials, 2011, 32, 4670-4681.	5.7	130
17	Alignment and Patterning of Ordered Smallâ€Molecule Organic Semiconductor Microâ€/Nanocrystals for Device Applications. Advanced Materials, 2016, 28, 2475-2503.	11.1	129
18	The effect of strain rate on the precision of penetration of short densely-packed microprojection array patches coated with vaccine. Biomaterials, 2010, 31, 4562-4572.	5.7	120

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19	Electrospun Nanofibers for Drug Delivery and Biosensing. ACS Biomaterials Science and Engineering, 2019, 5, 4183-4205.	2.6	114
20	Diamond nanostructures for drug delivery, bioimaging, and biosensing. Chemical Society Reviews, 2017, 46, 734-760.	18.7	109
21	Layered double hydroxide nanostructures and nanocomposites for biomedical applications. Journal of Materials Chemistry B, 2019, 7, 5583-5601.	2.9	108
22	Quantum dot penetration into viable human skin. Nanotoxicology, 2012, 6, 173-185.	1.6	105
23	Poking cells for efficient vector-free intracellular delivery. Nature Communications, 2014, 5, 4466.	5.8	104
24	Skin Vaccination against Cervical Cancer Associated Human Papillomavirus with a Novel Micro-Projection Array in a Mouse Model. PLoS ONE, 2010, 5, e13460.	1.1	97
25	A Cisplatinâ€Loaded Immunochemotherapeutic Nanohybrid Bearing Immune Checkpoint Inhibitors for Enhanced Cervical Cancer Therapy. Angewandte Chemie - International Edition, 2018, 57, 3426-3430.	7.2	97
26	Graphitic carbon nitride solid nanofilms for selective and recyclable sensing of Cu²⁺ and Ag⁺ in water and serum. Chemical Communications, 2014, 50, 15415-15418.	2.2	95
27	Chalcoplatin, a dual-targeting and p53 activator-containing anticancer platinum(<scp>iv</scp>) prodrug with unique mode of action. Chemical Communications, 2015, 51, 6301-6304.	2.2	90
28	Carrier-free nanodrugs for safe and effective cancer treatment. Journal of Controlled Release, 2021, 329, 805-832.	4.8	90
29	Improved DNA vaccination by skin-targeted delivery using dry-coated densely-packed microprojection arrays. Journal of Controlled Release, 2010, 148, 327-333.	4.8	89
30	A three-dimensional graphene scaffold supported thin film silicon anode for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 10092.	5.2	88
31	Wearable and flexible thin film thermoelectric module for multi-scale energy harvesting. Journal of Power Sources, 2020, 455, 227983.	4.0	85
32	Vertical nanostructure arrays by plasma etching for applications in biology, energy, and electronics. Nano Today, 2013, 8, 265-289.	6.2	84
33	Smart doxorubicin nanoparticles with high drug payload for enhanced chemotherapy against drug resistance and cancer diagnosis. Nanoscale, 2015, 7, 5683-5690.	2.8	84
34	Highly Sensitive and Ultrastable Skin Sensors for Biopressure and Bioforce Measurements Based on Hierarchical Microstructures. ACS Applied Materials & Interfaces, 2018, 10, 4086-4094.	4.0	83
35	Preparation and Size Control of Sub-100 nm Pure Nanodrugs. Nano Letters, 2015, 15, 313-318.	4.5	82
36	Nanopatch targeted delivery of both antigen and adjuvant to skin synergistically drives enhanced antibody responses. Journal of Controlled Release, 2012, 159, 215-221.	4.8	81

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37	Interfacial Engineering of Bimetallic Ag/Pt Nanoparticles on Reduced Graphene Oxide Matrix for Enhanced Antimicrobial Activity. ACS Applied Materials & Interfaces, 2016, 8, 8834-8840.	4.0	81
38	Combined chemotherapy and photodynamic therapy using a nanohybrid based on layered double hydroxides to conquer cisplatin resistance. Chemical Communications, 2015, 51, 11587-11590.	2.2	79
39	A recyclable carbon nanoparticle-based fluorescent probe for highly selective and sensitive detection of mercapto biomolecules. Journal of Materials Chemistry B, 2015, 3, 127-134.	2.9	79
40	Micro/nanoscale magnetic robots for biomedical applications. Materials Today Bio, 2020, 8, 100085.	2.6	79
41	Power law carrier dynamics in semiconductor nanocrystals at nanosecond timescales. Applied Physics Letters, 2008, 92, 101111.	1.5	78
42	Elastic modulus and viscoelastic properties of full thickness skin characterised at micro scales. Biomaterials, 2013, 34, 2087-2097.	5.7	75
43	Formulations for microprojection/microneedle vaccine delivery: Structure, strength and release profiles. Journal of Controlled Release, 2016, 225, 40-52.	4.8	74
44	Mitochondrial-Targeting Lonidamine-Doxorubicin Nanoparticles for Synergistic Chemotherapy to Conquer Drug Resistance. ACS Applied Materials & Interfaces, 2017, 9, 43498-43507.	4.0	72
45	Microâ€•and Nanotechnologies for Intracellular Delivery. Small, 2014, 10, 4487-4504.	5.2	70
46	Size Controllable and Surface Tunable Zeolitic Imidazolate Framework-8â€“Poly(acrylic acid sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 ACS Applied Materials & Interfaces, 2017, 9, 32990-33000.	4.0	69
47	Dry-Coated Live Viral Vector Vaccines Delivered by Nanopatch Microprojections Retain Long-Term Thermostability and Induce Transgene-Specific T Cell Responses in Mice. PLoS ONE, 2013, 8, e67888.	1.1	66
48	Advanced Materials and Nanotechnology for Drug Delivery. Advanced Materials, 2014, 26, 5533-5540.	11.1	66
49	Remote modulation of neural activities via near-infrared triggered release of biomolecules. Biomaterials, 2015, 65, 76-85.	5.7	65
50	High-throughput production of silk fibroin-based electrospun fibers as biomaterial for skin tissue engineering applications. Materials Science and Engineering C, 2020, 112, 110939.	3.8	65
51	Folic acid conjugated self-assembled layered double hydroxide nanoparticles for high-efficacy-targeted drug delivery. Chemical Communications, 2013, 49, 10938.	2.2	63
52	Nanocompositeâ€Strengthened Dissolving Microneedles for Improved Transdermal Delivery to Human Skin. Advanced Healthcare Materials, 2014, 3, 555-564.	3.9	61
53	DNA vaccine delivery by densely-packed and short microprojection arrays to skin protects against vaginal HSV-2 challenge. Vaccine, 2010, 28, 7483-7491.	1.7	59
54	Current and future technological advances in transdermal gene delivery. Advanced Drug Delivery Reviews, 2018, 127, 85-105.	6.6	58

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55	Improved polyvinylpyrrolidone microneedle arrays with non-stoichiometric cyclodextrin. Journal of Materials Chemistry B, 2014, 2, 1699-1705.	2.9	57
56	Graphene encapsulated and SiC reinforced silicon nanowires as an anode material for lithium ion batteries. Nanoscale, 2013, 5, 8689.	2.8	56
57	Near-infrared fluorescence imaging using organic dye nanoparticles. Biomaterials, 2014, 35, 3356-3364.	5.7	55
58	Metal organic frameworks for antibacterial applications. Chemical Engineering Journal, 2022, 435, 134975.	6.6	52
59	Dual-Targeted Multifunctional Nanoparticles for Magnetic Resonance Imaging Guided Cancer Diagnosis and Therapy. ACS Applied Materials & Interfaces, 2017, 9, 9986-9995.	4.0	50
60	Highly stable organic fluorescent nanorods for living-cell imaging. Nano Research, 2015, 8, 2380-2389.	5.8	49
61	Chitosan nanoparticles for nitric oxide delivery in human skin. MedChemComm, 2017, 8, 713-719.	3.5	49
62	Siteâ€Selectively Coated, Denselyâ€Packed Microprojection Array Patches for Targeted Delivery of Vaccines to Skin. Advanced Functional Materials, 2011, 21, 464-473.	7.8	44
63	Plasmonic nanopillar array embedded microfluidic chips: an in situ SERS monitoring platform. Journal of Materials Chemistry A, 2015, 3, 6408-6413.	5.2	43
64	A Novel Type of Aqueous Dispersible Ultrathin-Layered Double Hydroxide Nanosheets for in Vivo Bioimaging and Drug Delivery. ACS Applied Materials & Interfaces, 2017, 9, 34185-34193.	4.0	42
65	Highly luminescent monodisperse CdSe nanoparticles synthesized in aqueous solution. Journal of Materials Science, 2009, 44, 285-292.	1.7	41
66	Selective Formation of Cumulative Double Bonds (CCN) in the Attachment of Multifunctional Molecules on Si(111)-7 Ã— 7. Journal of the American Chemical Society, 2002, 124, 7170-7180.	6.6	40
67	A Diamond Nanoneedle Array for Potential Highâ€Throughput Intracellular Delivery. Advanced Healthcare Materials, 2013, 2, 1103-1107.	3.9	38
68	Rapid kinetics to peak serum antibodies is achieved following influenza vaccination by dry-coated densely packed microprojections to skin. Journal of Controlled Release, 2012, 158, 78-84.	4.8	37
69	Green Mass Production of Pure Nanodrugs via an Ice-Template-Assisted Strategy. Nano Letters, 2019, 19, 658-665.	4.5	37
70	Shape regulated anticancer activities and systematic toxicities of drug nanocrystals in vivo. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 181-189.	1.7	36
71	A one-step aqueous synthetic route to extremely small CdSe nanoparticles. Journal of Colloid and Interface Science, 2008, 319, 140-143.	5.0	35
72	Novel Pt-loaded layered double hydroxide nanoparticles for efficient and cancer-cell specific delivery of a cisplatin prodrug. Journal of Materials Chemistry B, 2014, 2, 4868.	2.9	35

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73	Dissociative adsorption of pyrrole on Si(111)-(7Ã—7). Journal of Chemical Physics, 2003, 119, 10389-10395.	1.2	34
74	Smart surface coating of drug nanoparticles with cross-linkable polyethylene glycol for bio-responsive and highly efficient drug delivery. Nanoscale, 2016, 8, 8118-8125.	2.8	34
75	Binding and Structure of Acetonitrile on Si(111)-7 Ã— 7. Journal of Physical Chemistry B, 2002, 106, 3890-3895.	1.2	33
76	Depth-resolved characterization of diffusion properties within and across minimally-perturbed skin layers. Journal of Controlled Release, 2013, 166, 87-94.	4.8	33
77	Synthesis of photo-excited Chlorin e6 conjugated silica nanoparticles for enhanced anti-bacterial efficiency to overcome methicillin-resistant Staphylococcus aureus. Chemical Communications, 2019, 55, 2656-2659.	2.2	33
78	Real-time imaging and tracking of ultrastable organic dye nanoparticles in living cells. Biomaterials, 2016, 93, 38-47.	5.7	32
79	Conjugated Polymer for Voltage-Controlled Release of Molecules. Advanced Materials, 2017, 29, 1701733.	11.1	31
80	Waterâ€Dispersible, pHâ€Stable and Highlyâ€Luminescent Organic Dye Nanoparticles with Amplified Emissions for In Vitro and In Vivo Bioimaging. Small, 2014, 10, 1125-1132.	5.2	30
81	Efficient co-delivery of a Pt(<scp>iv</scp>) prodrug and a p53 activator to enhance the anticancer activity of cisplatin. Chemical Communications, 2015, 51, 7859-7862.	2.2	29
82	Firmly anchored photosensitizer Chlorin e6 to layered double hydroxide nanoflakes for highly efficient photodynamic therapy in vivo. Chemical Communications, 2017, 53, 2339-2342.	2.2	29
83	Binder-free Ge-three dimensional graphene electrodes for high-rate capacity Li-ion batteries. Applied Physics Letters, 2013, 103, .	1.5	28
84	Highly luminescent covalently bonded layered double hydroxideâ€“fluorescent dye nanohybrids. Journal of Materials Chemistry C, 2014, 2, 4490-4494.	2.7	27
85	Diamondâ€Nanoneedleâ€Arrayâ€Facilitated Intracellular Delivery and the Potential Influence on Cell Physiology. Advanced Healthcare Materials, 2016, 5, 1157-1168.	3.9	27
86	Synthesis of Mesoporous ZIFâ€8 Nanoribbons and their Conversion into Carbon Nanoribbons for Highâ€Performance Supercapacitors. Chemistry - A European Journal, 2018, 24, 11185-11192.	1.7	24
87	pH and redox dual responsive carrier-free anticancer drug nanoparticles for targeted delivery and synergistic therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 102008.	1.7	24
88	A Carbon Flower Based Flexible Pressure Sensor Made from Largeâ€Area Coating. Advanced Materials Interfaces, 2020, 7, 2000875.	1.9	23
89	Biosensors and Pointâ€ofâ€Care Devices for Bacterial Detection: Rapid Diagnostics Informing Antibiotic Therapy. Advanced Healthcare Materials, 2022, 11, e2101546.	3.9	23
90	Selective attachment of benzonitrile on Si(111)-7Ã—7: Configuration, selectivity, and mechanism. Physical Review B, 2002, 65, .	1.1	22

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91	Poly(3-hexylthiophene) Nanotubes with Tunable Aspect Ratios and Charge Transport Properties. ACS Applied Materials & Interfaces, 2014, 6, 11874-11881.	4.0	22
92	Fabrication of arrays of high-aspect-ratio diamond nanoneedles via maskless ECR-assisted microwave plasma etching. CrystEngComm, 2015, 17, 2791-2800.	1.3	22
93	Continuous flow knitting of a triptycene hypercrosslinked polymer. Chemical Communications, 2019, 55, 8571-8574.	2.2	22
94	New tricks of old drugs: Repurposing non-chemo drugs and dietary phytochemicals as adjuvants in anti-tumor therapies. Journal of Controlled Release, 2021, 329, 96-120.	4.8	20
95	Nanomaterials for Drug Delivery. , 2014, , 221-268.		19
96	Label-Free Fluorescent Poly(amidoamine) Dendrimer for Traceable and Controlled Drug Delivery. Biomacromolecules, 2019, 20, 2148-2158.	2.6	19
97	Simultaneous Enhancement of Thermopower and Electrical Conductivity through Isovalent Substitution of Cerium in Bismuth Selenide Thermoelectric Materials. ACS Applied Materials & Interfaces, 2019, 11, 44026-44035.	4.0	18
98	Quantitative analysis of multiplex-components and double stranded DNA by wide-range surface-enhanced Raman spectroscopy based on ordered Ag/Si nanowire arrays. Journal of Materials Chemistry A, 2014, 2, 10218.	5.2	17
99	Dense diamond nanoneedle arrays for enhanced intracellular delivery of drug molecules to cell lines. Journal of Materials Science, 2015, 50, 7800-7807.	1.7	17
100	A diamond nanocone array for improved osteoblastic differentiation. Journal of Materials Chemistry B, 2013, 1, 3390.	2.9	15
101	A Cisplatinâ€Ł oaded Immunochemotherapeutic Nanohybrid Bearing Immune Checkpoint Inhibitors for Enhanced Cervical Cancer Therapy. Angewandte Chemie, 2018, 130, 3484-3488.	1.6	15
102	An erythrocyte-delivered photoactivatable oxaliplatin nanoprodrug for enhanced antitumor efficacy and immune response. Chemical Science, 2021, 12, 14353-14362.	3.7	15
103	Multiple configurations ofN-methylpyrrole binding onSi(111)â˜7Ã—7. Physical Review B, 2003, 67, .	1.1	14
104	Increasing mechanical stimulus induces migration of Langerhans cells and impairs the immune response to intracutaneously delivered antigen. Experimental Dermatology, 2011, 20, 534-536.	1.4	14
105	Doxorubicin@Bcl-2 siRNA Core@Shell Nanoparticles for Synergistic Anticancer Chemotherapy. ACS Applied Bio Materials, 2018, 1, 289-297.	2.3	14
106	Smart Nanotechnologies to Target Tumor with Deep Penetration Depth for Efficient Cancer Treatment and Imaging. Advanced Therapeutics, 2019, 2, 1900093.	1.6	14
107	Photosensitizer doped zeolitic imidazolate framework-8 nanocomposites for combined antibacterial therapy to overcome methicillin-resistant Staphylococcus aureus (MRSA). Colloids and Surfaces B: Biointerfaces, 2020, 190, 110900.	2.5	12
108	Controlled Assembly of Silver Nanoparticles Monolayer on 3D Polymer Nanotubes and their Applications. Small, 2014, 10, 4645-4650.	5.2	11

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109	Harnessing combinational phototherapy via post-synthetic PpIX conjugation on nanoscale metalâ€“organic frameworks. Journal of Materials Chemistry B, 2019, 7, 4763-4770.	2.9	11
110	Tuning the internal structures of CdSeS nanoparticles by using different selenium and sulphur precursors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 166, 14-18.	1.7	9
111	Diamond and carbon nanostructures for biomedical applications. Functional Diamond, 2021, 1, 221-242.	1.7	9
112	Suppression of Timeâ€Dependent Donor/Acceptor Interface Degradation by Redistributing Donor Charge Density. Advanced Materials Interfaces, 2014, 1, 1300082.	1.9	8
113	A facile synthesis of graphene-supported mesoporous TiO2 hybrid sheets with uniform coverage and controllable pore diameters. Microporous and Mesoporous Materials, 2015, 206, 95-101.	2.2	8
114	Highly Sensitive and Cost-Effective Portable Sensor for Early Gastric Carcinoma Diagnosis. Sensors, 2021, 21, 2639.	2.1	7
115	Extracellular Vesicles for the Diagnosis of Cancers. Small Structures, 2022, 3, 2100096.	6.9	7
116	Gating a Single Cell: A Label-Free and Real-Time Measurement Method for Cellular Progression. Analytical Chemistry, 2020, 92, 1738-1745.	3.2	4
117	Synthesis of Semiconductor Nanoparticles. Methods in Molecular Biology, 2012, 906, 103-123.	0.4	3
118	Targeted epidermal delivery of vaccines from coated micro-nanoprojection patches. , 2008, , .		2
119	Intracellular Delivery: Diamondâ€Nanoneedleâ€Arrayâ€Facilitated Intracellular Delivery and the Potential Influence on Cell Physiology (Adv. Healthcare Mater. 10/2016). Advanced Healthcare Materials, 2016, 5, 1116-1116.	3.9	2
120	Surface engineering of organic nanoparticles for highly improved bioimaging. Colloids and Surfaces B: Biointerfaces, 2017, 159, 596-604.	2.5	2
121	Novel coating of micro-nanoprojection patches for targeted vaccine delivery to skin. , 2008, , .		1
122	Fast evaporation aided coating of densely packed and short microprojection patches for enhanced vaccine delivery to the skin. , 2010, , .		0
123	Layered double hydroxides-silver-chlorin e6 nanocomposite for photo-chemo combination therapy to efficiently combat both Gram-positive and Gram-negative bacteria. Materials Today Communications, 2022, 30, 103101.	0.9	0