Xianfeng Chen

List of Publications by Year
in descending order

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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	Biosensors and Pointâ€ofâ€Care Devices for Bacterial Detection: Rapid Diagnostics Informing Antibiotic Therapy. Advanced Healthcare Materials, 2022, 11, e2101546.	3.9	23
2	Extracellular Vesicles for the Diagnosis of Cancers. Small Structures, 2022, 3, 2100096.	6.9	7
3	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
4	Metal organic frameworks for antibacterial applications. Chemical Engineering Journal, 2022, 435, 134975.	6.6	52
5	Carrier-free nanodrugs for safe and effective cancer treatment. Journal of Controlled Release, 2021, 329, 805-832.	4.8	90
6	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
7	Highly Sensitive and Cost-Effective Portable Sensor for Early Gastric Carcinoma Diagnosis. Sensors, 2021, 21, 2639.	2.1	7
8	An erythrocyte-delivered photoactivatable oxaliplatin nanoprodrug for enhanced antitumor efficacy and immune response. Chemical Science, 2021, 12, 14353-14362.	3.7	15
9	Diamond and carbon nanostructures for biomedical applications. Functional Diamond, 2021, 1, 221-242.	1.7	9
10	Gating a Single Cell: A Label-Free and Real-Time Measurement Method for Cellular Progression. Analytical Chemistry, 2020, 92, 1738-1745.	3.2	4
11	A Carbon Flower Based Flexible Pressure Sensor Made from Largeâ€Area Coating. Advanced Materials Interfaces, 2020, 7, 2000875.	1.9	23
12	Micro/nanoscale magnetic robots for biomedical applications. Materials Today Bio, 2020, 8, 100085.	2.6	79
13	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
14	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
15	Wearable and flexible thin film thermoelectric module for multi-scale energy harvesting. Journal of Power Sources, 2020, 455, 227983.	4.0	85
16	Electrospun Nanofibers for Drug Delivery and Biosensing. ACS Biomaterials Science and Engineering, 2019, 5, 4183-4205.	2.6	114
17	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
18	Smart Nanotechnologies to Target Tumor with Deep Penetration Depth for Efficient Cancer Treatment and Imaging. Advanced Therapeutics, 2019, 2, 1900093.	1.6	14

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19	Layered double hydroxide nanostructures and nanocomposites for biomedical applications. Journal of Materials Chemistry B, 2019, 7, 5583-5601.	2.9	108
20	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
21	Continuous flow knitting of a triptycene hypercrosslinked polymer. Chemical Communications, 2019, 55, 8571-8574.	2.2	22
22	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
23	Label-Free Fluorescent Poly(amidoamine) Dendrimer for Traceable and Controlled Drug Delivery. Biomacromolecules, 2019, 20, 2148-2158.	2.6	19
24	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
25	Green Mass Production of Pure Nanodrugs via an Ice-Template-Assisted Strategy. Nano Letters, 2019, 19, 658-665.	4.5	37
26	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
27	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
28	Current and future technological advances in transdermal gene delivery. Advanced Drug Delivery Reviews, 2018, 127, 85-105.	6.6	58
29	A Cisplatinâ€Loaded Immunochemotherapeutic Nanohybrid Bearing Immune Checkpoint Inhibitors for Enhanced Cervical Cancer Therapy. Angewandte Chemie, 2018, 130, 3484-3488.	1.6	15
30	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
31	Doxorubicin@Bcl-2 siRNA Core@Shell Nanoparticles for Synergistic Anticancer Chemotherapy. ACS Applied Bio Materials, 2018, 1, 289-297.	2.3	14
32	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
33	Dual-Targeted Multifunctional Nanoparticles for Magnetic Resonance Imaging Guided Cancer Diagnosis and Therapy. ACS Applied Materials & Interfaces, 2017, 9, 9986-9995.	4.0	50
34	Diamond nanostructures for drug delivery, bioimaging, and biosensing. Chemical Society Reviews, 2017, 46, 734-760.	18.7	109
35	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
36	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

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37	Conjugated Polymer for Voltage-Controlled Release of Molecules. Advanced Materials, 2017, 29, 1701733.	11.1	31
38	Surface engineering of organic nanoparticles for highly improved bioimaging. Colloids and Surfaces B: Biointerfaces, 2017, 159, 596-604.	2.5	2
39	Mitochondrial-Targeting Lonidamine-Doxorubicin Nanoparticles for Synergistic Chemotherapy to Conquer Drug Resistance. ACS Applied Materials & Interfaces, 2017, 9, 43498-43507.	4.0	72
40	Chitosan nanoparticles for nitric oxide delivery in human skin. MedChemComm, 2017, 8, 713-719.	3.5	49
41	Alignment and Patterning of Ordered Smallâ€Molecule Organic Semiconductor Microâ€/Nanocrystals for Device Applications. Advanced Materials, 2016, 28, 2475-2503.	11.1	129
42	Real-time imaging and tracking of ultrastable organic dye nanoparticles in living cells. Biomaterials, 2016, 93, 38-47.	5.7	32
43	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
44	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
45	Diamondâ€Nanoneedleâ€Arrayâ€Facilitated Intracellular Delivery and the Potential Influence on Cell Physiology. Advanced Healthcare Materials, 2016, 5, 1157-1168.	3.9	27
46	Formulations for microprojection/microneedle vaccine delivery: Structure, strength and release profiles. Journal of Controlled Release, 2016, 225, 40-52.	4.8	74
47	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
48	Shape regulated anticancer activities and systematic toxicities of drug nanocrystals in vivo. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 181-189.	1.7	36
49	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
50	Smart doxorubicin nanoparticles with high drug payload for enhanced chemotherapy against drug resistance and cancer diagnosis. Nanoscale, 2015, 7, 5683-5690.	2.8	84
51	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
52	Fabrication of arrays of high-aspect-ratio diamond nanoneedles via maskless ECR-assisted microwave plasma etching. CrystEngComm, 2015, 17, 2791-2800.	1.3	22
53	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
54	Graphitic carbon nitride nanosheet@metalâ€“organic framework coreâ€“shell nanoparticles for photo-chemo combination therapy. Nanoscale, 2015, 7, 17299-17305.	2.8	160

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55	Remote modulation of neural activities via near-infrared triggered release of biomolecules. Biomaterials, 2015, 65, 76-85.	5.7	65
56	Highly stable organic fluorescent nanorods for living-cell imaging. Nano Research, 2015, 8, 2380-2389.	5.8	49
57	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
58	Plasmonic nanopillar array embedded microfluidic chips: an in situ SERS monitoring platform. Journal of Materials Chemistry A, 2015, 3, 6408-6413.	5.2	43
59	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
60	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
61	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
62	Preparation and Size Control of Sub-100 nm Pure Nanodrugs. Nano Letters, 2015, 15, 313-318.	4.5	82
63	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
64	Improved polyvinylpyrrolidone microneedle arrays with non-stoichiometric cyclodextrin. Journal of Materials Chemistry B, 2014, 2, 1699-1705.	2.9	57
65	Near-infrared fluorescence imaging using organic dye nanoparticles. Biomaterials, 2014, 35, 3356-3364.	5.7	55
66	Suppression of Timeâ€Dependent Donor/Acceptor Interface Degradation by Redistributing Donor Charge Density. Advanced Materials Interfaces, 2014, 1, 1300082.	1.9	8
67	Nanomaterials for Drug Delivery. , 2014, , 221-268.		19
68	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
69	Advanced Materials and Nanotechnology for Drug Delivery. Advanced Materials, 2014, 26, 5533-5540.	11.1	66
70	Highly luminescent covalently bonded layered double hydroxideâ€“fluorescent dye nanohybrids. Journal of Materials Chemistry C, 2014, 2, 4490-4494.	2.7	27
71	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
72	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

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73	Poking cells for efficient vector-free intracellular delivery. Nature Communications, 2014, 5, 4466.	5.8	104
74	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
75	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
76	Microâ€•and Nanotechnologies for Intracellular Delivery. Small, 2014, 10, 4487-4504.	5.2	70
77	Controlled Assembly of Silver Nanoparticles Monolayer on 3D Polymer Nanotubes and their Applications. Small, 2014, 10, 4645-4650.	5.2	11
78	Poly(3-hexylthiophene) Nanotubes with Tunable Aspect Ratios and Charge Transport Properties. ACS Applied Materials & Interfaces, 2014, 6, 11874-11881.	4.0	22
79	Hierarchical Composite Electrodes of Nickel Oxide Nanoflake 3D Graphene for Highâ€Performance Pseudocapacitors. Advanced Functional Materials, 2014, 24, 6372-6380.	7.8	210
80	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
81	Nanocompositeâ€Strengthened Dissolving Microneedles for Improved Transdermal Delivery to Human Skin. Advanced Healthcare Materials, 2014, 3, 555-564.	3.9	61
82	Graphene encapsulated and SiC reinforced silicon nanowires as an anode material for lithium ion batteries. Nanoscale, 2013, 5, 8689.	2.8	56
83	Three-dimensional Snâ€“graphene anode for high-performance lithium-ion batteries. Nanoscale, 2013, 5, 10599.	2.8	141
84	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
85	Vertical nanostructure arrays by plasma etching for applications in biology, energy, and electronics. Nano Today, 2013, 8, 265-289.	6.2	84
86	Depth-resolved characterization of diffusion properties within and across minimally-perturbed skin layers. Journal of Controlled Release, 2013, 166, 87-94.	4.8	33
87	Folic acid conjugated self-assembled layered double hydroxide nanoparticles for high-efficacy-targeted drug delivery. Chemical Communications, 2013, 49, 10938.	2.2	63
88	A diamond nanocone array for improved osteoblastic differentiation. Journal of Materials Chemistry B, 2013, 1, 3390.	2.9	15
89	A Diamond Nanoneedle Array for Potential Highâ€Throughput Intracellular Delivery. Advanced Healthcare Materials, 2013, 2, 1103-1107.	3.9	38
90	Elastic modulus and viscoelastic properties of full thickness skin characterised at micro scales. Biomaterials, 2013, 34, 2087-2097.	5.7	75

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91	Binder-free Ge-three dimensional graphene electrodes for high-rate capacity Li-ion batteries. Applied Physics Letters, 2013, 103, .	1.5	28
92	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
93	Quantum dot penetration into viable human skin. Nanotoxicology, 2012, 6, 173-185.	1.6	105
94	Synthesis of Semiconductor Nanoparticles. Methods in Molecular Biology, 2012, 906, 103-123.	0.4	3
95	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
96	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
97	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
98	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
99	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
100	The viscoelastic, hyperelastic and scale dependent behaviour of freshly excised individual skin layers. Biomaterials, 2011, 32, 4670-4681.	5.7	130
101	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
102	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
103	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
104	Targeted, Needleâ€Free Vaccinations in Skin using Multilayered, Densely‐Packed Dissolving Microprojection Arrays. Small, 2010, 6, 1785-1793.	5.2	136
105	Nanopatchâ€Targeted Skin Vaccination against West Nile Virus and Chikungunya Virus in Mice. Small, 2010, 6, 1776-1784.	5.2	150
106	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
107	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
108	Fast evaporation aided coating of densely packed and short microprojection patches for enhanced vaccine delivery to the skin. , 2010, , .		0

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109	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
110	Dry-coated microprojection array patches for targeted delivery of immunotherapeutics to the skin. Journal of Controlled Release, 2009, 139, 212-220.	4.8	175
111	Highly luminescent monodisperse CdSe nanoparticles synthesized in aqueous solution. Journal of Materials Science, 2009, 44, 285-292.	1.7	41
112	A one-step aqueous synthetic route to extremely small CdSe nanoparticles. Journal of Colloid and Interface Science, 2008, 319, 140-143.	5.0	35
113	High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys. Science, 2008, 320, 634-638.	6.0	4,843
114	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
115	Power law carrier dynamics in semiconductor nanocrystals at nanosecond timescales. Applied Physics Letters, 2008, 92, 101111.	1.5	78
116	Novel coating of micro-nanoprojection patches for targeted vaccine delivery to skin. , 2008, , .		1
117	Targeted epidermal delivery of vaccines from coated micro-nanoprojection patches. , 2008, , .		2
118	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
119	Dissociative adsorption of pyrrole on Si(111)-(7Ã—7). Journal of Chemical Physics, 2003, 119, 10389-10395.	1.2	34
120	Multiple configurations ofN-methylpyrrole binding onSi(111)â˜7Ã—7. Physical Review B, 2003, 67, .	1.1	14
121	Selective attachment of benzonitrile on Si(111)-7Ã—7: Configuration, selectivity, and mechanism. Physical Review B, 2002, 65, .	1.1	22
122	Binding and Structure of Acetonitrile on Si(111)-7 Ã— 7. Journal of Physical Chemistry B, 2002, 106, 3890-3895.	1.2	33
123	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