Eijiro Miyako

List of Publications by Year
in descending order

71 papers	2,615 citations	218677 26 h-index	197818 49 g-index
78 all docs	78 docs citations	78 times ranked	3482 citing authors

#	Article	IF	Citations
1	Semiconducting Polymer Nanobioconjugates for Targeted Photothermal Activation of Neurons. Journal of the American Chemical Society, 2016, 138, 9049-9052.	13.7	404
2	Light-driven liquid metal nanotransformers for biomedical theranostics. Nature Communications, 2017, 8, 15432.	12.8	327
3	Photothermic regulation of gene expression triggered by laser-induced carbon nanohorns. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7523-7528.	7.1	96
4	Gallium-Based Liquid Metal Particles for Therapeutics. Trends in Biotechnology, 2021, 39, 624-640.	9.3	85
5	Enzyme-facilitated enantioselective transport of (S)-ibuprofen through a supported liquid membrane based on ionic liquids. Chemical Communications, 2003, , 2926.	4.1	79
6	Photofunctional Nanomodulators for Bioexcitation. Angewandte Chemie - International Edition, 2014, 53, 13121-13125.	13.8	72
7	Carbon nanotubeâ€"liposome supramolecular nanotrains for intelligent molecular-transport systems. Nature Communications, 2012, 3, 1226.	12.8	68
8	Alternating-Magnetic-Field-Mediated Wireless Manipulations of a Liquid Metal for Therapeutic Bioengineering. IScience, 2018, 3, 134-148.	4.1	66
9	Use of ionic liquids in a lipase-facilitated supported liquid membrane. Biotechnology Letters, 2003, 25, 805-808.	2.2	62
10	Near-infrared laser-triggered carbon nanohorns for selective elimination of microbes. Nanotechnology, 2007, 18, 475103.	2.6	57
11	Manipulation of Biomoleculeâ€Modified Liquidâ€Metal Blobs. Angewandte Chemie - International Edition, 2017, 56, 13606-13611.	13.8	56
12	Photoinduced antiviral carbon nanohorns. Nanotechnology, 2008, 19, 075106.	2.6	52
13	Photodynamic Thermoresponsive Nanocarbonâ€"Polymer Gel Hybrids. Small, 2008, 4, 1711-1715.	10.0	47
14	A Photoâ€Thermalâ€Electrical Converter Based On Carbon Nanotubes for Bioelectronic Applications. Angewandte Chemie - International Edition, 2011, 50, 12266-12270.	13.8	46
15	Lysosomal membrane permeabilization: Carbon nanohorn-induced reactive oxygen species generation and toxicity by this neglected mechanism. Toxicology and Applied Pharmacology, 2014, 280, 117-126.	2.8	46
16	Carbon Nanotubeâ€"Polymer Composite for Lightâ€Driven Microthermal Control. Angewandte Chemie - International Edition, 2008, 47, 3610-3613.	13.8	45
17	Materially Engineered Artificial Pollinators. CheM, 2017, 2, 224-239.	11.7	45
18	Highly Enantioselective Separation Using a Supported Liquid Membrane Encapsulating Surfactantâ^'Enzyme Complex. Journal of the American Chemical Society, 2004, 126, 8622-8623.	13.7	44

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19	Withaferin-A kills cancer cells with and without telomerase: chemical, computational and experimental evidences. Cell Death and Disease, 2017, 8, e2755-e2755.	6.3	41
20	Recent Advances in Liquid Metal Manipulation toward Soft Robotics and Biotechnologies. Chemistry - A European Journal, 2018, 24, 9456-9462.	3.3	41
21	Self-Assembled Carbon Nanotube Honeycomb Networks Using a Butterfly Wing Template as a Multifunctional Nanobiohybrid. ACS Nano, 2013, 7, 8736-8742.	14.6	40
22	Lipid Nanotube Tailored Fabrication of Uniquely Shaped Polydopamine Nanofibers as Photothermal Converters. Chemistry - A European Journal, 2016, 22, 4345-4350.	3.3	34
23	Photothermogenetic inhibition of cancer stemness by near-infrared-light-activatable nanocomplexes. Nature Communications, 2020, 11, 4117.	12.8	30
24	Direct Interspecies Electron Transfer Mediated by Graphene Oxide-Based Materials. Frontiers in Microbiology, 2019, 10, 3068.	3.5	28
25	Carbon nanohorns allow acceleration of osteoblast differentiation<i>via</i>macrophage activation. Nanoscale, 2016, 8, 14514-14522.	5.6	27
26	Folic Acid Receptor-Mediated Targeting Enhances the Cytotoxicity, Efficacy, and Selectivity of Withania somnifera Leaf Extract: In vitro and in vivo Evidence. Frontiers in Oncology, 2019, 9, 602.	2.8	27
27	Magnetically and Nearâ€Infrared Lightâ€Powered Supramolecular Nanotransporters for the Remote Control of Enzymatic Reactions. Angewandte Chemie - International Edition, 2016, 55, 6476-6481.	13.8	26
28	Preparation of small-sized graphene oxide sheets and their biological applications. Journal of Materials Chemistry B, 2016, 4, 121-127.	5.8	26
29	Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy. Angewandte Chemie - International Edition, 2020, 59, 14034-14039.	13.8	25
30	Self-assembled nanodiamond supraparticles for anticancer chemotherapy. Nanoscale, 2018, 10, 8969-8978.	5.6	24
31	Avengers against cancer: A new era of nano-biomaterial-based therapeutics. Materials Today, 2021, 51, 317-349.	14.2	24
32	Laser-triggered carbon nanotube microdevice for remote control of biocatalytic reactions. Lab on A Chip, 2009, 9, 788-794.	6.0	23
33	Amphipathic Nanodiamond Supraparticles for Anticancer Drug Loading and Delivery. ACS Applied Materials & Interfaces, 2019, 11, 18978-18987.	8.0	23
34	Nanoengineered <i>Bifidobacterium bifidum</i> with Optical Activity for Photothermal Cancer Immunotheranostics. Nano Letters, 2022, 22, 1880-1888.	9.1	23
35	Transport of organic acids through a supported liquid membrane driven by lipase-catalyzed reactions. Journal of Bioscience and Bioengineering, 2003, 96, 370-374.	2.2	21
36	Micropatterned Carbon Nanotubeâ€“Gel Composite as Photothermal Material. Advanced Materials, 2009, 21, 2819-2823.	21.0	21

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37	Multifunctional Carbon Nanohorn Complexes for Cancer Treatment. Chemistry - an Asian Journal, 2015, 10, 160-165.	3.3	21
38	Photodynamic release of fullerenes from within carbon nanohorn. Chemical Physics Letters, 2008, 456, 220-222.	2.6	20
39	Physicochemically functionalized carbon nanohorns for multi-dimensional cancer elimination. Carbon, 2016, 97, 45-53.	10.3	20
40	Novel Caffeic Acid Phenethyl Ester-Mortalin Antibody Nanoparticles Offer Enhanced Selective Cytotoxicity to Cancer Cells. Cancers, 2020, 12, 2370.	3.7	20
41	Lightâ€Driven Thermoelectric Conversion Based on a Carbon Nanotubeâ€"Ionic Liquid Gel Composite. ChemSusChem, 2009, 2, 740-742.	6.8	18
42	Soap Bubble Pollination. IScience, 2020, 23, 101188.	4.1	18
43	In Vivo Remote Control of Reactions in <i>Caenorhabditis elegans</i> by Using Supramolecular Nanohybrids of Carbon Nanotubes and Liposomes. Angewandte Chemie - International Edition, 2015, 54, 9903-9906.	13.8	17
44	Manipulation of Biomoleculeâ€Modified Liquidâ€Metal Blobs. Angewandte Chemie, 2017, 129, 13794-13799.	2.0	17
45	A Supported Liquid Membrane Encapsulating a Surfactant-Lipase Complex for the Selective Separation of Organic Acids. Chemistry - A European Journal, 2005, 11, 1163-1170.	3.3	16
46	Evaluation of the biological influence of a stable carbon nanohorn dispersion. Carbon, 2013, 54, 155-167.	10.3	16
47	Optically activatable photosynthetic bacteria-based highly tumor specific immunotheranostics. Nano Today, 2021, 37, 101100.	11.9	16
48	Anticancer drug delivery to cancer cells using alkyl amine-functionalized nanodiamond supraparticles. Nanoscale Advances, 2019, 1, 3406-3412.	4.6	15
49	Species-Specific Biodegradation of Sporopollenin-Based Microcapsules. Scientific Reports, 2019, 9, 9626.	3.3	14
50	Design, synthesis, characterization and properties of magnetic nanoparticleâ€"nanocarbon hybrids. Carbon, 2016, 96, 49-56.	10.3	13
51	Multifunctional Cancer Phototherapy Using Fluorophore-Functionalized Nanodiamond Supraparticles. ACS Applied Bio Materials, 2019, 2, 3693-3705.	4.6	13
52	Lightâ€Triggered Thermoelectric Conversion Based on a Carbon Nanotubeâ€"Polymer Hybrid Gel. ChemSusChem, 2009, 2, 419-422.	6.8	12
53	Microfluidic liquid cell chamber for scanning probe microscopy measurement application. Review of Scientific Instruments, 2019, 90, 046105.	1.3	10
54	Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy. Angewandte Chemie, 2020, 132, 14138-14143.	2.0	10

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55	Convergence of Liquid Metal Biotechnologies for Our Health. Accounts of Materials Research, 2021, 2, 858-862.	11.7	10
56	Optical Resolution of Various Amino Acids Using a Supported Liquid Membrane Encapsulating a Surfactantâ˘Protease Complex. Langmuir, 2005, 21, 4674-4679.	3.5	9
57	Carbon nanohorn coating by electrodeposition accelerate bone formation on titanium implant. Artificial Cells, Nanomedicine and Biotechnology, 2021, 49, 20-29.	2.8	9
58	Ionic Liquids on Photoinduced Nanotube Composite Arrays as a Reaction Medium. Chemistry - A European Journal, 2009, 15, 7520-7525.	3.3	8
59	Magnetically and Nearâ€Infrared Lightâ€Powered Supramolecular Nanotransporters for the Remote Control of Enzymatic Reactions. Angewandte Chemie, 2016, 128, 6586-6591.	2.0	8
60	Spatially Controlled Molecular Encapsulation in Natural Pine Pollen Microcapsules. Particle and Particle Systems Characterization, 2018, 35, 1800151.	2.3	8
61	Human blood plasma catalyses the degradation of Lycopodium plant sporoderm microcapsules. Scientific Reports, 2019, 9, 2944.	3.3	7
62	Degradation of the sporopollenin exine capsules (SECs) in human plasma. Applied Materials Today, 2020, 19, 100594.	4.3	7
63	Photothermal and mechanical stimulation of cells via dualfunctional nanohybrids. Nanotechnology, 2016, 27, 475102.	2.6	6
64	Sonication - and Î³-ray-mediated biomolecule-liquid metal nanoparticlization in cancer optotheranostics. Applied Materials Today, 2022, 26, 101302.	4.3	4
65	Lightâ€Active Carbon Nanodots from Autoclaved Bioresources. ChemistrySelect, 2016, 1, 608-611.	1.5	3
66	Optical Regulation of Carbon Nanodots by Chemical Functionalization. Chemistry Letters, 2016, 45, 854-856.	1.3	3
67	Bioinspired Polyanilineâ€Functional Natural Hairs for Pollen Protection. ChemistrySelect, 2016, 1, 1061-1065.	1.5	1
68	Frontispiece: Recent Advances in Liquid Metal Manipulation toward Soft Robotics and Biotechnologies. Chemistry - A European Journal, 2018, 24, .	3.3	0
69	Design and Control of Bioinspired Millibots. Advanced Intelligent Systems, 2020, 2, 2070073.	6.1	0
70	InnenrÃ¼cktitelbild: Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy (Angew. Chem. 33/2020). Angewandte Chemie, 2020, 132, 14267-14267.	2.0	0
71	Design and Control of Bioinspired Millibots. Advanced Intelligent Systems, 2020, 2, 2000059.	6.1	0