Mai Thanh Nguyen

List of Publications by Year in Descending Order

75 papers	967 citations	18 h-index	24 g-index
84 ext. papers	1,272 ext. citations	4.2 avg, IF	4.81 L-index

#	Paper	IF	Citations
75	Alginate-Stabilized Gold Nanoparticles Prepared Using the Microwave-Induced Plasma-in-Liquid Process with Long-Term Storage Stability for Potential Biomedical Applications.. *ACS Omega*, **2022**, 7, 6238-6247	3.9	1
74	Recent advances in oxygen electrocatalysts based on tunable structural polymers. *Materials Today Chemistry*, **2022**, 23, 100632	6.2	5
73	Benchmarking superfast electrodeposited bimetallic (Ni, Fe, Co, and Cu) hydroxides for oxygen evolution reaction. *Journal of Alloys and Compounds*, **2022**, 889, 161738	5.7	7
72	Anisotropic Growth of Copper Nanorods Mediated by Cl Ions.. *ACS Omega*, **2022**, 7, 7414-7420	3.9	
71	Control of nanoparticles synthesized vacuum sputter deposition onto liquids: a review.. *Soft Matter*, **2021**, 18, 19-47	3.6	1
70	THz wave emission from the Cu2O/Cu interface under femtosecond laser irradiation. *Applied Physics Express*, **2021**, 14, 012006	2.4	0
69	Pt/Ag Solid Solution Alloy Nanoparticles in Miscibility Gaps Synthesized by Cosputtering onto Liquid Polymers. *Langmuir*, **2021**, 37, 6096-6105	4	3
68	Micro- and nano-encapsulated metal and alloy-based phase-change materials for thermal energy storage. *Nanoscale Advances*, **2021**, 3, 4626-4645	5.1	3
67	A durable rechargeable zinc-air battery via self-supported MnOx-S air electrode. *Journal of Alloys and Compounds*, **2021**, 883, 160935	5.7	8
66	Binder-Free MnO Nanowires on Carbon Cloth as Cathode Material for Zinc-ion Batteries. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	10
65	High-Capacity Dual-Electrolyte Aluminum Air Battery with Circulating Methanol Anolyte. *Energies*, **2020**, 13, 2275	3.1	13
64	Synthesis of Au@CuO Core-Shell Nanoparticles with Tunable Shell Thickness and Their Degradation Mechanism in Aqueous Solutions. *Langmuir*, **2020**, 36, 3386-3392	4	10
63	Highly Correlated Size and Composition of Pt/Au Alloy Nanoparticles via Magnetron Sputtering onto Liquid. *Langmuir*, **2020**, 36, 3004-3015	4	9
62	THz Wave Emission from ZnTe Nano-colloidal Aqueous Dispersion Irradiated by Femtosecond Laser. *Chemistry Letters*, **2020**, 49, 597-600	1.7	1
61	Silver Decorated Reduced Graphene Oxide as Electrocatalyst for Zinc Air Batteries. *Energies*, **2020**, 13, 462	3.1	16
60	Synthesis of composition-tunable Pd Cu alloy nanoparticles by double target sputtering. *New Journal of Chemistry*, **2020**, 44, 4704-4712	3.6	7
59	In situ TEM observation of liquid-state Sn nanoparticles vanishing in a SiO2 structure: a potential synthetic tool for controllable morphology evolution from core shell to yolk shell and hollow structures. *Nanoscale Advances*, **2020**, 2, 1456-1464	5.1	1

58	Binder-Free Centimeter-Long V2O5 Nanofibers on Carbon Cloth as Cathode Material for Zinc-Ion Batteries. *Energies*, **2020**, 13, 31	3.1	28
57	Enhanced Cycling Performance of Rechargeable Zinc-Air Flow Batteries Using Potassium Persulfate as Electrolyte Additive. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	12
56	MnO Heterostructure on Carbon Nanotubes as Cathode Material for Aqueous Zinc-Ion Batteries. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	18
55	Ethylene Glycol/Ethanol Anolyte for High Capacity Alkaline Aluminum-Air Battery With Dual-Electrolyte Configuration. *Frontiers in Energy Research*, **2020**, 8,	3.8	7
54	Surfactant-stabilized copper paticles for low-temperature sintering: Paste preparation using a milling with small zirconia beads: Effect of pre-treatment with the disperse medium. *Advanced Powder Technology*, **2020**, 31, 4570-4575	4.6	3
53	Synergistic Effect of the Oleic Acid and Oleylamine Mixed-Liquid Matrix on Particle Size and Stability of Sputtered Metal Nanoparticles. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 18167-18176	8.3	5
52	Green Synthesis of Size-Tunable Iron Oxides and Iron Nanoparticles in a Salt Matrix. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 17697-17705	8.3	10
51	Monitor the Growth and Oxidation of Cu-nanoparticles in PEG after Sputtering. *MRS Advances*, **2019**, 4, 305-309	0.7	7
50	Electrochemical exploration of the effects of calcination temperature of a mesoporous zinc vanadate anode material on the performance of Na-ion batteries. *Inorganic Chemistry Frontiers*, **2019**, 6, 2653-2659	6.8	10
49	Preparation and Growth Mechanism of Pt/Cu Alloy Nanoparticles by Sputter Deposition onto a Liquid Polymer. *Langmuir*, **2019**, 35, 8418-8427	4	11
48	Size-Tunable Alumina-Encapsulated Sn-Based Phase Change Materials for Thermal Energy Storage. *ACS Applied Nano Materials*, **2019**, 2, 3752-3760	5.6	17
47	Porous ZnV2O4 Nanowire for Stable and High-Rate Lithium-Ion Battery Anodes. *ACS Applied Nano Materials*, **2019**, 2, 4247-4256	5.6	26
46	High Aspect Ratio and Post-Processing Free Silver Nanowires as Top Electrodes for Inverted-Structured Photodiodes. *ACS Omega*, **2019**, 4, 13303-13308	3.9	10
45	Synthesis of Sn/Ag-Sn nanoparticles room temperature galvanic reaction and diffusion.. *RSC Advances*, **2019**, 9, 21786-21792	3.7	6
44	Size-controlled Preparation of Alkylamine-stabilized Copper Fine Particles from Cupric Oxide (CuO) Micro-particles. *MRS Advances*, **2019**, 4, 413-418	0.7	3
43	Annealing induced a well-ordered single crystal ▯MnO and its electrochemical performance in zinc-ion battery. *Scientific Reports*, **2019**, 9, 15107	4.9	18
42	Ligand free green plasma-in-liquid synthesis of Au/Ag alloy nanoparticles. *New Journal of Chemistry* , **2018**, 42, 5680-5687	3.6	10
41	ZnV 2 O 4 : A potential anode material for sodium-ion batteries. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 88, 161-168	5.3	19

40	Sub-2 nm Single-Crystal Pt Nanoparticles via Sputtering onto a Liquid Polymer. *Langmuir*, **2018**, 34, 2876-2881	4	14
39	l-Arginine-Stabilized Highly Uniform Ag Nanoparticles Prepared in a Microwave-Induced Plasma-in-Liquid Process (MWPLP). *Bulletin of the Chemical Society of Japan*, **2018**, 91, 362-367	5.1	8
38	Sn Nanoparticles Confined in Porous Silica Spheres for Enhanced Thermal Cyclic Stability. *ACS Applied Nano Materials*, **2018**, 1, 4073-4082	5.6	10
37	Sn Nanorods with Active (001) Tip Induced LiF-Rich SEI Layer for Stable Anode Material in Lithium Ion Battery. *ACS Applied Nano Materials*, **2018**, 1, 3509-3519	5.6	21
36	Electrochemical properties of novel FeVO as an anode for Na-ion batteries. *Scientific Reports*, **2018**, 8, 8839	4.9	16
35	Sputtering onto a liquid: interesting physical preparation method for multi-metallic nanoparticles. *Science and Technology of Advanced Materials*, **2018**, 19, 883-898	7.1	43
34	Microwave-Induced Plasma-In-Liquid Process for Nanoparticle Production. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 1781-1798	5.1	30
33	Effect of H2O2 on Au nanoparticle preparation using microwave-induced plasma in liquid. *Materials Chemistry and Physics*, **2017**, 193, 7-12	4.4	14
32	Preparation of Au/Pd Bimetallic Nanoparticles by a Microwave-Induced Plasma in Liquid Process. *Bulletin of the Chemical Society of Japan*, **2017**, 90, 279-285	5.1	27
31	Stabilization of the thermal decomposition process of self-reducible copper ion ink for direct printed conductive patterns. *RSC Advances*, **2017**, 7, 25095-25100	3.7	15
30	Particle size tuning in scalable synthesis of anti-oxidized copper fine particles by polypeptide molecular weights. *Advanced Powder Technology*, **2017**, 28, 1966-1971	4.6	6
29	Effect of decomposition and organic residues on resistivity of copper films fabricated via low-temperature sintering of complex particle mixed dispersions. *Scientific Reports*, **2017**, 7, 45150	4.9	21
28	Use of decomposable polymer-coated submicron Cu particles with effective additive for production of highly conductive Cu films at low sintering temperature. *Journal of Materials Chemistry C*, **2017**, 5, 1033-1041	7.1	22
27	Au/Cu Bimetallic Nanoparticles via Double-Target Sputtering onto a Liquid Polymer. *Langmuir*, **2017**, 33, 12389-12397	4	26
26	Effects of Additives on the Preparation of Ag Nanoparticles Using the Microwave-Induced Plasma in Liquid Process. *ChemistrySelect*, **2017**, 2, 7873-7879	1.8	9
25	Structural Control Parameters for Formation of Single-Crystalline Sn Nanorods in Organic Phase. *Crystal Growth and Design*, **2017**, 17, 4554-4562	3.5	11
24	Synthesis of Positively Charged Photoluminescent Bimetallic Au-Ag Nanoclusters by Double-Target Sputtering Method on a Biocompatible Polymer Matrix. *Langmuir*, **2017**, 33, 9144-9150	4	23
23	Femtosecond laser-induced hard X-ray generation in air from a solution flow of Au nano-sphere suspension using an automatic positioning system. *Optics Express*, **2016**, 24, 19994-20001	3.3	9

22	Titanium oxide nanoparticle dispersions in a liquid monomer and solid polymer resins prepared by sputtering. *New Journal of Chemistry*, **2016**, 40, 9337-9343	3.6	7
21	Au Nanoparticles Prepared Using a Coated Electrode in Plasma-in-Liquid Process: Effect of the Solution pH. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 9257-9262	1.3	16
20	Low temperature sintering process of copper fine particles under nitrogen gas flow with Cu2+-alkanolamine metallacycle compounds for electrically conductive layer formation. *RSC Advances*, **2016**, 6, 12048-12052	3.7	38
19	Au Nanoplasma as Efficient Hard X-ray Emission Source. *ACS Photonics*, **2016**, 3, 2184-2190	6.3	20
18	Matrix Sputtering into Liquid Mercaptan: From Blue-Emitting Copper Nanoclusters to Red-Emitting Copper Sulfide Nanoclusters. *Langmuir*, **2016**, 32, 12159-12165	4	14
17	Double target sputtering into liquid: A new approach for preparation of Ag–Au alloy nanoparticles. *Materials Letters*, **2016**, 171, 75-78	3.3	25
16	A new approach for additive-free room temperature sintering of conductive patterns using polymer-stabilized Sn nanoparticles. *Journal of Materials Chemistry C*, **2016**, 4, 2228-2234	7.1	32
15	MHz-ultrasound generation by chirped femtosecond laser pulses from gold nano-colloidal suspensions. *Optics Express*, **2016**, 24, 17050-9	3.3	6
14	Highly stable and blue-emitting copper nanocluster dispersion prepared by magnetron sputtering over liquid polymer matrix. *RSC Advances*, **2016**, 6, 105030-105034	3.7	13
13	Reproducible shape control of single-crystal SnO micro particles. *RSC Advances*, **2016**, 6, 26725-26733	3.7	7
12	Synthesis and fluorescence properties of a nanoisland-structured SiOx/CuxO composite. *Journal of Materials Chemistry C*, **2015**, 3, 8358-8363	7.1	6
11	Synthesis of magnetic mesoporous titania colloidal crystals through evaporation induced self-assembly in emulsion as effective and recyclable photocatalysts. *Physical Chemistry Chemical Physics*, **2015**, 17, 27653-7	3.6	19
10	Proton-assisted low-temperature sintering of Cu fine particles stabilized by a proton-initiating degradable polymer. *RSC Advances*, **2015**, 5, 102904-102910	3.7	11
9	Enhanced Terahertz Emission from CuxO/Metal Thin Film Deposited on Columnar-Structured Porous Silicon. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 1385-1387	5.1	5
8	Mesoporous Europium-Doped Titania Nanoparticles (Eu-MTNs) for Luminescence-Based Intracellular Bio-Imaging. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 9802-6	1.3	4
7	Cladding layer on well-defined double-wall TiO2 nanotubes. *Langmuir*, **2015**, 31, 1575-80	4	13
6	Chemical Synthesis of Binary Solid Solution Bismuth–Antimony Nanoparticles with Control of Composition and Morphology. *Chemistry Letters*, **2014**, 43, 615-617	1.7	2
5	Chemical synthesis of blue-emitting metallic zinc nano-hexagons. *CrystEngComm*, **2013**, 15, 6606	3.3	48

4	One-pot Chemical Synthesis of Zinc Antimonide Nanoparticles as Building Blocks for Nanostructured Thermoelectric Materials. *Chemistry Letters*, **2012**, 41, 1529-1531	1.7	5
3	Bismuth, antimony and tellurium alloy nanoparticles with controllable shape and composition for efficient thermoelectric devices. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 52-58	1.6	17
2	Study on formation mechanism and ligand-directed architectural control of nanoparticles composed of Bi, Sb and Te: towards one-pot synthesis of ternary (Bi,Sb)2Te3 nanobuilding blocks. *RSC Advances*, **2011**, 1, 1089	3.7	11
1	Elucidation of the Complex Structure of Nanoparticles Composed of Bismuth, Antimony, and Tellurium Using Scanning Transmission Electron Microscopy. *Journal of Physical Chemistry C*, **2011**, 115, 17334-17340	3.8	7