# Tetsu Yonezawa

List of Publications by Year
in descending order

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|---|---|---|---|
| 206 papers | 7,029 citations | 87723 38 h-index | 74018 75 g-index |
| 216 all docs | 216 docs citations | 216 times ranked | 6634 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bimetallic nanoparticlesâ€"novel materials for chemical and physical applications. New Journal of Chemistry, 1998, 22, 1179-1201. | 1.4 | 1,510 |
| 2 | Structural analysis of polymer-protected palladium/platinum bimetallic clusters as dispersed catalysts by using extended x-ray absorption fine structure spectroscopy. The Journal of Physical Chemistry, 1991, 95, 7448-7453. | 2.9 | 310 |
| 3 | Polymer-protected palladiumâ€"platinum bimetallic clusters: preparation, catalytic properties and structural considerations. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2537-2543. | 1.7 | 273 |
| 4 | Platinum Nanoflowers for Surface-Assisted Laser Desorption/Ionization Mass Spectrometry of Biomolecules. Journal of Physical Chemistry C, 2007, 111, 16278-16283. | 1.5 | 169 |
| 5 | Mechanistic consideration of formation of polymer-protected nanoscopic bimetallic clusters. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 4111. | 1.7 | 153 |
| 6 | Î´-MnO2 nanoflower/graphite cathode for rechargeable aqueous zinc ion batteries. Scientific Reports, 2019, 9, 8441. | 1.6 | 139 |
| 7 | Polymer- and micelle-protected gold/platinum bimetallic systems. Preparation, application to catalysis for visible-light-induced hydrogen evolution, and analysis of formation process with optical methods. Journal of Molecular Catalysis, 1993, 83, 167-181. | 1.2 | 138 |
| 8 | Controlled Formation of Smaller Gold Nanoparticles by the Use of Four-Chained Disulfide Stabilizer. Langmuir, 2001, 17, 271-273. | 1.6 | 135 |
| 9 | Colloidal Dispersions of Palladiumâ€"Platinum Bimetallic Clusters Protected by Polymers. Preparation and Application to Catalysis. Chemistry Letters, 1989, 18, 1769-1772. | 0.7 | 106 |
| 10 | Detailed Investigation on the Possibility of Nanoparticles of Various Metal Elements for Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Sciences, 2009, 25, 339-346. | 0.8 | 97 |
| 11 | Discharge Performance of Zinc-Air Flow Batteries Under the Effects of Sodium Dodecyl Sulfate and Pluronic F-127. Scientific Reports, 2018, 8, 14909. | 1.6 | 85 |
| 12 | Metal Coating of DNA Molecules by Cationic, Metastable Gold Nanoparticles. Chemistry Letters, 2002, 31, 1172-1173. | 0.7 | 78 |
| 13 | The Influence of Dimethyl Sulfoxide as Electrolyte Additive on Anodic Dissolution of Alkaline Zinc-Air Flow Battery. Scientific Reports, 2019, 9, 14958. | 1.6 | 75 |
| 14 | Preparation of Highly Positively Charged Silver Nanoballs and Their Stability. Langmuir, 2000, 16, 5218-5220. | 1.6 | 73 |
| 15 | Ethanol as an electrolyte additive for alkaline zinc-air flow batteries. Scientific Reports, 2018, 8, 11273. | 1.6 | 73 |
| 16 | Synthesis of nanoparticles of silver and platinum by microwave-induced plasma in liquid. Surface and Coatings Technology, 2011, 206, 955-958. | 2.2 | 70 |
| 17 | Control over Film Thickness of SnO2Ultrathin Film Selectively Deposited on a Patterned Self-Assembled Monolayer. Langmuir, 2002, 18, 10379-10385. | 1.6 | 68 |
| 18 | Investigation of Apatite Deposition onto Charged Surfaces in Aqueous Solutions Using a Quartzâ€Crystal Microbalance. Journal of the American Ceramic Society, 2003, 86, 782-790. | 1.9 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Growth of Closely Packed Layers of Gold Nanoparticles on an Aligned Ammonium Surface. Advanced Materials, 1998, 10, 414-416. | 11.1 | 64 |
| 20 | Deâ€…Novo Synthesis of Goldâ€Nanoparticleâ€Embedded, Nitrogenâ€Doped Nanoporous Carbon Nanoparticles (Au@NC) with Enhanced Reduction Ability. ChemCatChem, 2016, 8, 502-509. | 1.8 | 62 |
| 21 | Sputtering onto a liquid: interesting physical preparation method for multi-metallic nanoparticles. Science and Technology of Advanced Materials, 2018, 19, 883-898. | 2.8 | 61 |
| 22 | Formation of Uniform Fluorinated Gold Nanoparticles and Their Highly Ordered Hexagonally Packed Monolayer. Langmuir, 2001, 17, 2291-2293. | 1.6 | 59 |
| 23 | Low temperature sintering process of copper fine particles under nitrogen gas flow with Cu<sup>2+</sup>-alkanolamine metallacycle compounds for electrically conductive layer formation. RSC Advances, 2016, 6, 12048-12052. | 1.7 | 55 |
| 24 | The preparation of copper fine particle paste and its application as the inner electrode material of a multilayered ceramic capacitor. Nanotechnology, 2008, 19, 145706. | 1.3 | 54 |
| 25 | 195Pt NMR of Polymer-Protected Pt/Pd Bimetallic Catalysts. The Journal of Physical Chemistry, 1996, 100, 730-733. | 2.9 | 51 |
| 26 | Formation and Optical Properties of Fluorescent Gold Nanoparticles Obtained by Matrix Sputtering Method with Volatile Mercaptan Molecules in the Vacuum Chamber and Consideration of Their Structures. Langmuir, 2015, 31, 4323-4329. | 1.6 | 51 |
| 27 | Matrix Sputtering Method: A Novel Physical Approach for Photoluminescent Noble Metal Nanoclusters. Accounts of Chemical Research, 2017, 50, 2986-2995. | 7.6 | 50 |
| 28 | Experimental and theoretical studies of photoluminescence from Bi82+ and Bi53+ stabilized by [AlCl4]â^' in molecular crystals. Journal of Materials Chemistry, 2012, 22, 12837. | 6.7 | 49 |
| 29 | Molten matrix sputtering synthesis of water-soluble luminescent Au nanoparticles with a large Stokes shift. Chemical Communications, 2010, 46, 7211. | 2.2 | 48 |
| 30 | The Polymer-Protected Pdâ€“Pt Bimetallic Clusters Having Catalytic Activity for Selective Hydrogenation of Diene. Preparation and EXAFS Investigation on the Structure. Chemistry Letters, 1990, 19, 815-818. | 0.7 | 45 |
| 31 | Self-Assembled One-Dimensional Arrays of Goldâ^'Dendron Nanocomposites. Journal of Physical Chemistry B, 2002, 106, 12097-12100. | 1.2 | 44 |
| 32 | Preparation of Optical Resins Containing Dispersed Gold Nanoparticles by the Matrix Sputtering Method. Angewandte Chemie - International Edition, 2011, 50, 703-705. | 7.2 | 44 |
| 33 | The mechanism of alkylamine-stabilized copper fine particles towards improving the electrical conductivity of copper films at low sintering temperature. Journal of Materials Chemistry C, 2015, 3, 5890-5895. | 2.7 | 43 |
| 34 | Binder-Free Centimeter-Long V2O5 Nanofibers on Carbon Cloth as Cathode Material for Zinc-Ion Batteries. Energies, 2020, 13, 31. | 1.6 | 43 |
| 35 | Highly stable rechargeable zinc-ion battery using dimethyl sulfoxide electrolyte. Materials Today Energy, 2021, 21, 100738. | 2.5 | 43 |
| 36 | Synthesis of binary solid solution Cuâ€“Pd nanoparticles by DMF reduction for enhanced photoluminescence properties. Journal of Materials Chemistry C, 2015, 3, 514-520. | 2.7 | 42 |

| # | Article | IF | Citations |
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| 37 | Size-Controlled Oxidation-Resistant Copper Fine Particles Covered by Biopolymer Nanoskin. Journal of Nanoscience and Nanotechnology, 2008, 8, 2468-2471. | 0.9 | 41 |
| 38 | Porous ZnV<sub>2</sub>O<sub>4</sub> Nanowire for Stable and High-Rate Lithium-Ion Battery Anodes. ACS Applied Nano Materials, 2019, 2, 4247-4256. | 2.4 | 41 |
| 39 | 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. | 2.7 | 40 |
| 40 | Copper film prepared from copper fine particle paste by laser sintering at room temperature: Influences of sintering atmosphere on the morphology and resistivity. Japanese Journal of Applied Physics, 2014, 53, 096501. | 0.8 | 38 |
| 41 | Fully Cationized Gold Clusters: Synthesis of Au<sub>25</sub>(SR<sup>+</sup>)<sub>18</sub>. Journal of Physical Chemistry Letters, 2016, 7, 3718-3722. | 2.1 | 38 |
| 42 | High temperature oxidation event of gelatin nanoskin-coated copper fine particles observed by in situ TEM. AIP Advances, 2012, 2, . | 0.6 | 37 |
| 43 | Annealing induced a well-ordered single crystal Î´-MnO2 and its electrochemical performance in zinc-ion battery. Scientific Reports, 2019, 9, 15107. | 1.6 | 37 |
| 44 | MnO2 Heterostructure on Carbon Nanotubes as Cathode Material for Aqueous Zinc-Ion Batteries. International Journal of Molecular Sciences, 2020, 21, 4689. | 1.8 | 37 |
| 45 | Enhanced Cycling Performance of Rechargeable Zincâ€“Air Flow Batteries Using Potassium Persulfate as Electrolyte Additive. International Journal of Molecular Sciences, 2020, 21, 7303. | 1.8 | 36 |
| 46 | Microwave-Induced Plasma-In-Liquid Process for Nanoparticle Production. Bulletin of the Chemical Society of Japan, 2018, 91, 1781-1798. | 2.0 | 35 |
| 47 | Benchmarking superfast electrodeposited bimetallic (Ni, Fe, Co, and Cu) hydroxides for oxygen evolution reaction. Journal of Alloys and Compounds, 2021, 889, 161738. | 2.8 | 35 |
| 48 | Preparation of polymerâ€protected gold/platinum bimetallic clusters and their application to visible lightâ€induced hydrogen evolution. Makromolekulare Chemie Macromolecular Symposia, 1992, 59, 281-295. | 0.6 | 33 |
| 49 | Thiolateâ€“Protected Gold Nanoparticles Via Physical Approach: Unusual Structural and Photophysical Characteristics. Scientific Reports, 2016, 6, 29928. | 1.6 | 33 |
| 50 | Au/Cu Bimetallic Nanoparticles via Double-Target Sputtering onto a Liquid Polymer. Langmuir, 2017, 33, 12389-12397. | 1.6 | 33 |
| 51 | Synthesis of Positively Charged Photoluminescent Bimetallic Auâ€“Ag Nanoclusters by Double-Target Sputtering Method on a Biocompatible Polymer Matrix. Langmuir, 2017, 33, 9144-9150. | 1.6 | 33 |
| 52 | Ultra-broad near-infrared photoluminescence from crystalline (K-crypt)2Bi2 containing [Bi2]2â^' dimers. Journal of Materials Chemistry, 2012, 22, 20175. | 6.7 | 32 |
| 53 | Silver sputtering into a liquid matrix containing mercaptans: the systematic size control of silver nanoparticles in single nanometer-orders. New Journal of Chemistry, 2015, 39, 4227-4230. | 1.4 | 32 |
| 54 | Î²-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. | 2.4 | 32 |

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| 55 | Silver Decorated Reduced Graphene Oxide as Electrocatalyst for Zincâ€“Air Batteries. Energies, 2020, 13, 462. | 1.6 | 32 |
| 56 | Synthesis and antibacterial properties of water-dispersible silver nanoparticles stabilized by metalâ€“carbon Ïƒ-bonds. Applied Surface Science, 2012, 262, 76-80. | 3.1 | 31 |
| 57 | Low-temperature nanoredox two-step sintering of gelatin nanoskin-stabilized submicrometer-sized copper fine particles for preparing highly conductive layers. RSC Advances, 2015, 5, 61290-61297. | 1.7 | 31 |
| 58 | 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. | 2.0 | 31 |
| 59 | Preparation of Zinc Oxide Nanoparticles by Using Microwave-induced Plasma in Liquid. Chemistry Letters, 2010, 39, 783-785. | 0.7 | 30 |
| 60 | Double target sputtering into liquid: A new approach for preparation of Agâ€“Au alloy nanoparticles. Materials Letters, 2016, 171, 75-78. | 1.3 | 30 |
| 61 | Stabilizing structure of tertiary amine-protected rhodium colloid dispersions in chloroform. Journal of the Chemical Society Dalton Transactions, 1996, , 783. | 1.1 | 29 |
| 62 | Double-Wall TiO<sub>2</sub> Nanotube Arrays: Enhanced Photocatalytic Activity and In Situ TEM Observations at High Temperature. ACS Applied Materials & Interfaces, 2014, 6, 19924-19932. | 4.0 | 28 |
| 63 | 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. | 1.6 | 28 |
| 64 | Preparation of Ag nanoparticles using hydrogen peroxide as a reducing agent. New Journal of Chemistry, 2018, 42, 14493-14501. | 1.4 | 28 |
| 65 | 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. | 2.7 | 27 |
| 66 | High-Capacity Dual-Electrolyte Aluminumâ€“Air Battery with Circulating Methanol Anolyte. Energies, 2020, 13, 2275. | 1.6 | 27 |
| 67 | A durable rechargeable zinc-air battery via self-supported MnOx-S air electrode. Journal of Alloys and Compounds, 2021, 883, 160935. | 2.8 | 27 |
| 68 | Size-Tunable Alumina-Encapsulated Sn-Based Phase Change Materials for Thermal Energy Storage. ACS Applied Nano Materials, 2019, 2, 3752-3760. | 2.4 | 26 |
| 69 | Cationic Silver Nanoparticles Dispersed in Water Prepared from Insoluble Salts. Chemistry Letters, 2003, 32, 194-195. | 0.7 | 25 |
| 70 | Stabilization of the thermal decomposition process of self-reducible copper ion ink for direct printed conductive patterns. RSC Advances, 2017, 7, 25095-25100. | 1.7 | 25 |
| 71 | ZnV2O4: A potential anode material for sodium-ion batteries. Journal of the Taiwan Institute of Chemical Engineers, 2018, 88, 161-168. | 2.7 | 25 |
| 72 | Behavior of Cu nanoparticles ink under reductive calcination for fabrication of Cu conductive film. Thin Solid Films, 2012, 520, 2789-2793. | 0.8 | 24 |

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| 73 | Salmon milt DNA as a template for the mass production of Ag nanoparticles. Polymer Journal, 2014, 46, 36-41. | 1.3 | 24 |
| 74 | Sputtering synthesis and optical investigation of octadecanethiol-protected fluorescent Au nanoparticles. New Journal of Chemistry, 2015, 39, 5895-5897. | 1.4 | 24 |
| 75 | Au Nanoplasma as Efficient Hard X-ray Emission Source. ACS Photonics, 2016, 3, 2184-2190. | 3.2 | 24 |
| 76 | Kinetics of Cationic-Ligand-Exchange Reactions in Au<sub>25</sub> Nanoclusters. Journal of Physical Chemistry C, 2018, 122, 18142-18150. | 1.5 | 24 |
| 77 | Impact of Binder Functional Groups on Controlling Chemical Reactions to Improve Stability of Rechargeable Zinc-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 7138-7147. | 2.5 | 24 |
| 78 | Recent advances in oxygen electrocatalysts based on tunable structural polymers. Materials Today Chemistry, 2022, 23, 100632. | 1.7 | 24 |
| 79 | Enhanced photoacoustics from gold nano-colloidal suspensions under femtosecond laser excitation. Optics Express, 2016, 24, 14781. | 1.7 | 22 |
| 80 | Yttrium (III) Recovery with D2EHPA in Pseudo-Emulsion Hollow Fiber Strip Dispersion System. Scientific Reports, 2018, 8, 7627. | 1.6 | 22 |
| 81 | Electrochemical properties of novel FeV2O4 as an anode for Na-ion batteries. Scientific Reports, 2018, 8, 8839. | 1.6 | 22 |
| 82 | 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. | 3.0 | 22 |
| 83 | Binder-Free Î±-MnO2 Nanowires on Carbon Cloth as Cathode Material for Zinc-Ion Batteries. International Journal of Molecular Sciences, 2020, 21, 3113. | 1.8 | 22 |
| 84 | Growth of sputtered silver nanoparticles on a liquid mercaptan matrix with controlled viscosity and sputter rate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 498, 106-111. | 2.3 | 21 |
| 85 | Micro- and nano-encapsulated metal and alloy-based phase-change materials for thermal energy storage. Nanoscale Advances, 2021, 3, 4626-4645. | 2.2 | 21 |
| 86 | 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, 27653-27657. | 1.3 | 20 |
| 87 | Plasma induced tungsten doping of TiO<sub>2</sub> particles for enhancement of photocatalysis under visible light. Physical Chemistry Chemical Physics, 2015, 17, 24556-24559. | 1.3 | 20 |
| 88 | Water-dispersible fluorescent silver nanoparticles via sputtering deposition over liquid polymer using a very short thiol ligand. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 518, 25-29. | 2.3 | 20 |
| 89 | Preparation of Cationic Gold Nanoparticles and Their Monolayer Formation on an Anionic Amphiphile Layer. Chemistry Letters, 1999, 28, 1061-1062. | 0.7 | 19 |
| 90 | Preparation of naked silver nanoparticles in a TEM column and direct in situ observation of their structural changes at high temperature. Chemical Physics Letters, 2012, 537, 65-68. | 1.2 | 19 |

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| 91 | Preparation of Copper Nanoparticles in Liquid by Matrix Sputtering Process. Journal of Physics: Conference Series, 2013, 417, 012038. | 0.3 | 19 |
| 92 | Sub-2 nm Single-Crystal Pt Nanoparticles via Sputtering onto a Liquid Polymer. Langmuir, 2018, 34, 2876-2881. | 1.6 | 19 |
| 93 | Behavior of in vitro, in vivo and internal motion of micro/nano particles of titanium, titanium oxides and others. Journal of the Ceramic Society of Japan, 2008, 116, 1-5. | 0.5 | 18 |
| 94 | A Novel Physical Approach for Cationicâ€“Thiolate Protected Fluorescent Gold Nanoparticles. Scientific Reports, 2015, 5, 15372. | 1.6 | 18 |
| 95 | Ligand Effect on the Formation of Gold Nanoparticles via Sputtering Deposition over a Liquid Matrix. Bulletin of the Chemical Society of Japan, 2016, 89, 1054-1056. | 2.0 | 18 |
| 96 | High Aspect Ratio and Post-Processing Free Silver Nanowires as Top Electrodes for Inverted-Structured Photodiodes. ACS Omega, 2019, 4, 13303-13308. | 1.6 | 18 |
| 97 | Effect of H2O2 on Au nanoparticle preparation using microwave-induced plasma in liquid. Materials Chemistry and Physics, 2017, 193, 7-12. | 2.0 | 17 |
| 98 | Synthesis of Au@Cu<sub>2</sub>O Coreâ€“Shell Nanoparticles with Tunable Shell Thickness and Their Degradation Mechanism in Aqueous Solutions. Langmuir, 2020, 36, 3386-3392. | 1.6 | 17 |
| 99 | Matrix Sputtering into Liquid Mercaptan: From Blue-Emitting Copper Nanoclusters to Red-Emitting Copper Sulfide Nanoclusters. Langmuir, 2016, 32, 12159-12165. | 1.6 | 16 |
| 100 | Highly Correlated Size and Composition of Pt/Au Alloy Nanoparticles via Magnetron Sputtering onto Liquid. Langmuir, 2020, 36, 3004-3015. | 1.6 | 16 |
| 101 | Effect of Glass Transition Temperature of Stabilizing Polymer of Air-Stable Gelatin-Stabilized Copper Fine Particles during Redox Two-Step Low-Temperature Sintering Process. Bulletin of the Chemical Society of Japan, 2015, 88, 1755-1759. | 2.0 | 15 |
| 102 | Small Nanosized Oxygen-Deficient Tungsten Oxide Particles: Mechanistic Investigation with Controlled Plasma Generation in Water for Their Preparation. ACS Omega, 2017, 2, 5104-5110. | 1.6 | 15 |
| 103 | Sintering Copper Nanoparticles with Photonic Additive for Printed Conductive Patterns by Intense Pulsed Light. Nanomaterials, 2019, 9, 1071. | 1.9 | 15 |
| 104 | Preparation and Growth Mechanism of Pt/Cu Alloy Nanoparticles by Sputter Deposition onto a Liquid Polymer. Langmuir, 2019, 35, 8418-8427. | 1.6 | 15 |
| 105 | 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. | 3.2 | 15 |
| 106 | Selective and reactive hydration of nitriles to amides in water using silver nanoparticles stabilized by organic ligands. Journal of Nanoparticle Research, 2015, 17, 1. | 0.8 | 14 |
| 107 | A liquid metal catalyst for the conversion of ethanol into graphitic carbon layers under an ultrasonic cavitation field. Chemical Communications, 2022, 58, 7741-7744. | 2.2 | 14 |
| 108 | Ball mill-assisted synthesis of NiFeCo-NC as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. Journal of Alloys and Compounds, 2022, 922, 166287. | 2.8 | 14 |

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| 109 | Photosensitized Reduction of Carbon Dioxide in Solution Using Noble-Metal Clusters for Electron Transfer. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1995, 50, 283-291. | 0.7 | 13 |
| 110 | Studies on heterogeneous degradation of polypropylene/talc composite: Effect of iron impurity on the degradation behavior. Journal of Applied Polymer Science, 2010, 115, 167-173. | 1.3 | 13 |
| 111 | Highly stable and blue-emitting copper nanocluster dispersion prepared by magnetron sputtering over liquid polymer matrix. RSC Advances, 2016, 6, 105030-105034. | 1.7 | 13 |
| 112 | Structural Control Parameters for Formation of Single-Crystalline Î²-Sn Nanorods in Organic Phase. Crystal Growth and Design, 2017, 17, 4554-4562. | 1.4 | 13 |
| 113 | Ligand free green plasma-in-liquid synthesis of Au/Ag alloy nanoparticles. New Journal of Chemistry, 2018, 42, 5680-5687. | 1.4 | 13 |
| 114 | Giant Enhancement of THz Wave Emission under Double-Pulse Excitation of Thin Water Flow. Applied Sciences (Switzerland), 2020, 10, 2031. | 1.3 | 13 |
| 115 | Ethylene Glycol/Ethanol Anolyte for High Capacity Alkaline Aluminum-Air Battery With Dual-Electrolyte Configuration. Frontiers in Energy Research, 2020, 8, . | 1.2 | 13 |
| 116 | Control of nanoparticles synthesized via vacuum sputter deposition onto liquids: a review. Soft Matter, 2021, 18, 19-47. | 1.2 | 13 |
| 117 | Proton-assisted low-temperature sintering of Cu fine particles stabilized by a proton-initiating degradable polymer. RSC Advances, 2015, 5, 102904-102910. | 1.7 | 12 |
| 118 | X-ray diffraction and high-resolution TEM observations of biopolymer nanoskin-covered metallic copper fine particles: preparative conditions and surface oxidation states. Physical Chemistry Chemical Physics, 2015, 17, 32511-32516. | 1.3 | 12 |
| 119 | Synthesis of cationically charged photoluminescent coinage metal nanoclusters by sputtering over a liquid polymer matrix. New Journal of Chemistry, 2017, 41, 6828-6833. | 1.4 | 12 |
| 120 | <scp>l</scp>-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. | 2.0 | 12 |
| 121 | Basic [Au<sub>25</sub>(SCH<sub>2</sub>CH<sub>2</sub>Py)<sub>18</sub>]<sup>â^'</sup>â‹…Na<sup>+</sup> Clusters: Synthesis, Layered Crystallographic Arrangement, and Unique Surface Protonation. Angewandte Chemie - International Edition, 2019, 58, 13411-13415. | 7.2 | 12 |
| 122 | Green Synthesis of Size-Tunable Iron Oxides and Iron Nanoparticles in a Salt Matrix. ACS Sustainable Chemistry and Engineering, 2019, 7, 17697-17705. | 3.2 | 12 |
| 123 | Atomic-Scale Imaging of a Free-Standing Monolayer Clay Mineral Nanosheet Using Scanning Transmission Electron Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 3357-3361. | 2.1 | 12 |
| 124 | Efficient ironâ€“cobalt oxide bifunctional electrode catalysts in rechargeable high current density zincâ€“air batteries. Nanoscale, 2022, 14, 8012-8022. | 2.8 | 12 |
| 125 | Room-temperature immobilization of gold nanoparticles on Si(111) surface and their electron behaviour. Physical Chemistry Chemical Physics, 2008, 10, 6925. | 1.3 | 11 |
| 126 | Detailed investigation of the reduction process of cupric oxide (CuO) to form metallic copper fine particles with a unique diameter. Journal of Materials Science, 2010, 45, 6433-6439. | 1.7 | 11 |

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|---|---|---|---|
| 127 | Controlling an electrostatic repulsion by oppositely charged surfactants towards positively charged fluorescent gold nanoclusters. Physical Chemistry Chemical Physics, 2016, 18, 8773-8776. | 1.3 | 11 |
| 128 | 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. | 1.7 | 11 |
| 129 | Understanding the primary and secondary aggregation states of sputtered silver nanoparticles in thiolate matrix and their immobilization in resin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 504, 437-441. | 2.3 | 11 |
| 130 | Titanium oxide nanoparticle dispersions in a liquid monomer and solid polymer resins prepared by sputtering. New Journal of Chemistry, 2016, 40, 9337-9343. | 1.4 | 11 |
| 131 | Surface-Assisted Laser Desorption Ionization Mass Spectrometry (SALDI-MS) of Low-Molecular-Weight Medicines and Toxic Materials Using Commercial TiO2 Nanoparticles. Bulletin of the Chemical Society of Japan, 2016, 89, 346-353. | 2.0 | 11 |
| 132 | Sn Nanoparticles Confined in Porous Silica Spheres for Enhanced Thermal Cyclic Stability. ACS Applied Nano Materials, 2018, 1, 4073-4082. | 2.4 | 11 |
| 133 | Spatio-temporal control of THz emission. Communications Physics, 2022, 5, . | 2.0 | 11 |
| 134 | Near-infrared photoluminescence from molecular crystals containing tellurium. Journal of Materials Chemistry, 2012, 22, 24792. | 6.7 | 10 |
| 135 | Black TiO2 Nanoparticles by a Microwave-induced Plasma over Titanium Complex Aqueous Solution. Chemistry Letters, 2015, 44, 1327-1329. | 0.7 | 10 |
| 136 | Synthesis and fluorescence properties of columnar porous silicon: the influence of Cu-coating on the photoluminescence behaviour of hydrofluoric-acid-treated aged columnar porous silicon. New Journal of Chemistry, 2015, 39, 6267-6273. | 1.4 | 10 |
| 137 | Effects of Additives on the Preparation of Ag Nanoparticles Using the Microwaveâ€Induced Plasma in Liquid Process. ChemistrySelect, 2017, 2, 7873-7879. | 0.7 | 10 |
| 138 | Photoacoustic signal enhancements from gold nano-colloidal suspensions excited by a pair of time-delayed femtosecond pulses. Optics Express, 2017, 25, 19497. | 1.7 | 10 |
| 139 | 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. | 2.0 | 10 |
| 140 | Direct SEM Observation of Non-electroconductive TiOF2 Nanotube Arrays Prepared by Anodization Using an Ionic Liquid as a Visualizing Reagent. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 239-242. | 1.9 | 9 |
| 141 | Suitability of GaP nanoparticles as a surface-assisted laser desorption/ionization mass spectroscopy inorganic matrix and their soft ionization ability. Analyst, The, 2013, 138, 995. | 1.7 | 9 |
| 142 | SEM observation of the live morphology of human red blood cells under high vacuum conditions using a novel RTIL. Surface and Interface Analysis, 2014, 46, 425-428. | 0.8 | 9 |
| 143 | Sputter Deposition toward Short Cationic Thiolated Fluorescent Gold Nanoclusters: Investigation of Their Unique Structural and Photophysical Characteristics Using High-Performance Liquid Chromatography. Langmuir, 2018, 34, 4024-4030. | 1.6 | 9 |
| 144 | Ultrarapid Cationization of Gold Nanoparticles via a Single-Step Ligand Exchange Reaction. Langmuir, 2018, 34, 10668-10672. | 1.6 | 9 |

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|---|---|---|---|
| 145 | Synthesis of composition-tunable Pdâ€“Cu alloy nanoparticles by double target sputtering. New Journal of Chemistry, 2020, 44, 4704-4712. | 1.4 | 9 |
| 146 | Synthesis and fluorescence properties of a nanoisland-structured SiO<sub>x</sub>/Cu<sub>x</sub>O composite. Journal of Materials Chemistry C, 2015, 3, 8358-8363. | 2.7 | 8 |
| 147 | Enhancement of X-ray emission from nanocolloidal gold suspensions under double-pulse excitation. Beilstein Journal of Nanotechnology, 2018, 9, 2609-2617. | 1.5 | 8 |
| 148 | MHz-ultrasound generation by chirped femtosecond laser pulses from gold nano-colloidal suspensions. Optics Express, 2016, 24, 17050. | 1.7 | 7 |
| 149 | Reproducible shape control of single-crystal SnO micro particles. RSC Advances, 2016, 6, 26725-26733. | 1.7 | 7 |
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