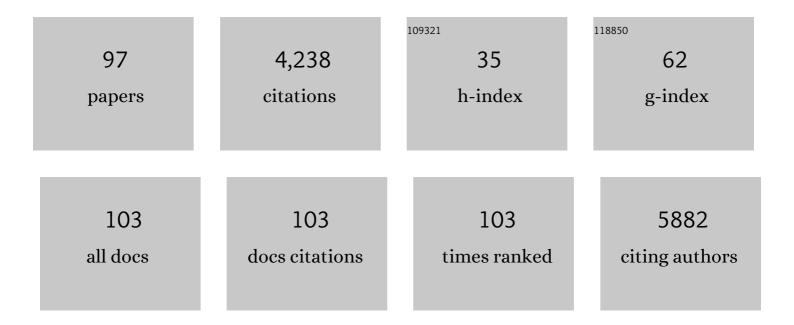
Toshiharu Teranishi

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Synthesis of Mesoscopic Particles of Multi-Component Rare Earth Permanent Magnet Compounds. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, S84-S98. | 0.2 | 0 |
| 2 | Bridging electrocatalyst and cocatalyst studies for solar hydrogen production <i>via</i> water splitting. Chemical Science, 2022, 13, 2824-2840. | 7.4 | 15 |
| 3 | Inter-element miscibility driven stabilization of ordered pseudo-binary alloy. Nature Communications, 2022, 13, 1047. | 12.8 | 6 |
| 4 | <i>In Situ</i> Control of Crystallinity of 3D Colloidal Crystals by Tuning the Growth Kinetics of Nanoparticle Building Blocks. Journal of the American Chemical Society, 2022, 144, 5871-5877. | 13.7 | 12 |
| 5 | Band Engineering-Tuned Localized Surface Plasmon Resonance in Diverse-Phased Cu _{2–<i>x</i>} S _{<i>y</i>} Se _{1–<i>y</i>} Nanocrystals. Journal of Physical Chemistry C, 2022, 126, 8107-8112. | 3.1 | 3 |
| 6 | Bimetallic Synergy in Ultrafine Cocatalyst Alloy Nanoparticles for Efficient Photocatalytic Water Splitting. Advanced Functional Materials, 2022, 32, . | 14.9 | 35 |
| 7 | Size-controlled quantum dots reveal the impact of intraband transitions on high-order harmonic generation in solids. Nature Physics, 2022, 18, 874-878. | 16.7 | 17 |
| 8 | Exciton Recycling in Triplet Energy Transfer from a Defect-Rich Quantum Dot to an Organic Molecule. Journal of Physical Chemistry C, 2022, 126, 11674-11679. | 3.1 | 1 |
| 9 | (Invited, Digital Presentation) Transformations of Ionic Nanocrystals Via Ion Exchange Reactions. ECS Meeting Abstracts, 2022, MA2022-01, 930-930. | 0.0 | 0 |
| 10 | Control over Ligand-Exchange Positions of Thiolate-Protected Gold Nanoclusters Using Steric Repulsion of Protecting Ligands. Journal of the American Chemical Society, 2022, 144, 12310-12320. | 13.7 | 30 |
| 11 | Interference effects in high-order harmonics from colloidal perovskite nanocrystals excited by an elliptically polarized laser. Physical Review Materials, 2021, 5, . | 2.4 | 11 |
| 12 | Transformations of Ionic Nanocrystals via Full and Partial Ion Exchange Reactions. Accounts of Chemical Research, 2021, 54, 765-775. | 15.6 | 43 |
| 13 | Morphology-Dependent Coherent Acoustic Phonon Vibrations and Phonon Beat of Au Nanopolyhedrons. ACS Omega, 2021, 6, 5485-5489. | 3.5 | 5 |
| 14 | Strong spin-orbit coupling inducing Autler-Townes effect in lead halide perovskite nanocrystals. Nature Communications, 2021, 12, 3026. | 12.8 | 17 |
| 15 | Bragg coherent diffraction imaging allowing simultaneous retrieval of three-dimensional shape and strain distribution for 40–500Ânm particles. Japanese Journal of Applied Physics, 2021, 60, SFFA07. | 1.5 | 7 |
| 16 | Innentitelbild: Creation of Highâ€Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster (Angew. Chem. 39/2021). Angewandte Chemie, 2021, 133, 21242-21242. | 2.0 | 0 |
| 17 | Determinants of crystal structure transformation of ionic nanocrystals in cation exchange reactions. Science, 2021, 373, 332-337. | 12.6 | 50 |
| 18 | Creation of Highâ€Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. Angewandte Chemie, 2021, 133, 21510-21520. | 2.0 | 12 |

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|----|---|------|-----------|
| 19 | Creation of Highâ€Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. Angewandte Chemie - International Edition, 2021, 60, 21340-21350. | 13.8 | 74 |
| 20 | Luminescence Fine Structures in Single Lead Halide Perovskite Nanocrystals: Size Dependence of the Exciton–Phonon Coupling. Nano Letters, 2021, 21, 7206-7212. | 9.1 | 39 |
| 21 | Synthesis of mesoscopic particles of multi-component rare earth permanent magnet compounds. Science and Technology of Advanced Materials, 2021, 22, 37-54. | 6.1 | 5 |
| 22 | Gold Nanocluster Functionalized with Peptide Dendron Thiolates: Acceleration of the Photocatalytic Oxidation of an Amino Alcohol in a Supramolecular Reaction Field. ACS Catalysis, 2021, 11, 13180-13187. | 11.2 | 12 |
| 23 | Near-Unity Singlet Fission on a Quantum Dot Initiated by Resonant Energy Transfer. Journal of the American Chemical Society, 2021, 143, 17388-17394. | 13.7 | 10 |
| 24 | Collective enhancement of quantum coherence in coupled quantum dot films. Physical Review B, 2021, 104, . | 3.2 | 6 |
| 25 | Phase segregated Cu _{2â^x} Se/Ni ₃ Se ₄ bimetallic selenide nanocrystals formed through the cation exchange reaction for active water oxidation precatalysts. Chemical Science, 2020, 11, 1523-1530. | 7.4 | 26 |
| 26 | Core–Shell CsPbBr ₃ @CdS Quantum Dots with Enhanced Stability and Photoluminescence Quantum Yields for Optoelectronic Devices. ACS Applied Nano Materials, 2020, 3, 7563-7571. | 5.0 | 45 |
| 27 | Cation Distribution in Monodispersed MFe ₂ O ₄ (M = Mn, Fe, Co, Ni, and Zn) Nanoparticles Investigated by X-ray Absorption Fine Structure Spectroscopy: Implications for Magnetic Data Storage, Catalysts, Sensors, and Ferrofluids. ACS Applied Nano Materials, 2020, 3, 8389-8402. | 5.0 | 42 |
| 28 | Number of Surface-Attached Acceptors on a Quantum Dot Impacts Energy Transfer and Photon Upconversion Efficiencies. ACS Photonics, 2020, 7, 1876-1884. | 6.6 | 13 |
| 29 | Self-activated Rh–Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. Chemical Science, 2020, 11, 6862-6867. | 7.4 | 12 |
| 30 | Hard X-ray excited optical luminescence from protein-directed Auâ^1⁄420 clusters. RSC Advances, 2020, 10, 13824-13829. | 3.6 | 3 |
| 31 | Ligand-Stabilized CoO and NiO Nanoparticles for Spintronic Devices with Antiferromagnetic Insulators. ACS Applied Nano Materials, 2020, 3, 2745-2755. | 5.0 | 18 |
| 32 | Reduction of Optical Gain Threshold in CsPbl ₃ Nanocrystals Achieved by Generation of Asymmetric Hot-Biexcitons. Nano Letters, 2020, 20, 3905-3910. | 9.1 | 22 |
| 33 | Effect of A-Site Cation on Photoluminescence Spectra of Single Lead Bromide Perovskite Nanocrystals. Nano Letters, 2020, 20, 4022-4028. | 9.1 | 29 |
| 34 | Plasmon-Induced Carrier Transfer for Infrared Light Energy Conversion. , 2020, , 211-222. | | 0 |
| 35 | (Invited) Alchemy in Nanoplasmonics: New Class of Plasmonic Alloy Nanoparticles. ECS Meeting Abstracts, 2020, MA2020-01, 896-896. | 0.0 | 0 |
| 36 | Formation of strong <i>L</i> 1 ₀ -FePd/α-Fe nanocomposite magnets by visualizing efficient exchange coupling. Nanoscale Advances, 2019, 1, 2598-2605. | 4.6 | 9 |

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|----|--|------|-----------|
| 37 | Anomalous Photoinduced Hole Transport in Type I Core/Mesoporous-Shell Nanocrystals for Efficient Photocatalytic H ₂ Evolution. ACS Nano, 2019, 13, 8356-8363. | 14.6 | 44 |
| 38 | Hot Carrier Chemistry. ChemNanoMat, 2019, 5, 976-976. | 2.8 | 0 |
| 39 | Ionization and Neutralization Dynamics of CsPbBr ₃ Perovskite Nanocrystals Revealed by Double-Pump Transient Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 4731-4736. | 4.6 | 8 |
| 40 | Impact of Orbital Hybridization at Molecule–Metal Interface on Carrier Dynamics. Journal of Physical Chemistry C, 2019, 123, 25877-25882. | 3.1 | 7 |
| 41 | Nanoparticle Approach to the Formation of Sm ₂ Fe ₁₇ N ₃ Hard Magnetic Particles. Chemistry Letters, 2019, 48, 1054-1057. | 1.3 | 7 |
| 42 | Clear and transparent nanocrystals for infrared-responsive carrier transfer. Nature Communications, 2019, 10, 406. | 12.8 | 33 |
| 43 | Carrier-Selective Blocking Layer Synergistically Improves the Plasmonic Enhancement Effect. Journal of the American Chemical Society, 2019, 141, 8402-8406. | 13.7 | 25 |
| 44 | Plasmonic p–n Junction for Infrared Light to Chemical Energy Conversion. Journal of the American Chemical Society, 2019, 141, 2446-2450. | 13.7 | 110 |
| 45 | Durian-Shaped CdS@ZnSe Core@Mesoporous-Shell Nanoparticles for Enhanced and Sustainable Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry Letters, 2018, 9, 2212-2217. | 4.6 | 31 |
| 46 | Hot Biexciton Effect on Optical Gain in CsPbl ₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2018, 9, 2222-2228. | 4.6 | 67 |
| 47 | Phase-segregated NiP _x @FeP _y O _z core@shell nanoparticles: ready-to-use nanocatalysts for electro- and photo-catalytic water oxidation through <i>in situ</i> activation by structural transformation and spontaneous ligand removal. Chemical Science, 2018, 9, 4830-4836. | 7.4 | 21 |
| 48 | Numerical and experimental investigations of dependence of photoacoustic signals from gold nanoparticles on the optical properties. Optical Review, 2018, 25, 365-374. | 2.0 | 8 |
| 49 | Boosting photocatalytic overall water splitting by Co doping into Mn ₃ O ₄ nanoparticles as oxygen evolution cocatalysts. Nanoscale, 2018, 10, 10420-10427. | 5.6 | 56 |
| 50 | Ligand effect on the catalytic activity of porphyrin-protected gold clusters in the electrochemical hydrogen evolution reaction. Chemical Science, 2018, 9, 261-265. | 7.4 | 34 |
| 51 | Quantum coherence of multiple excitons governs absorption cross-sections of PbS/CdS core/shell nanocrystals. Nature Communications, 2018, 9, 3179. | 12.8 | 23 |
| 52 | Suppression of Trion Formation in CsPbBr ₃ Perovskite Nanocrystals by Postsynthetic Surface Modification. Journal of Physical Chemistry C, 2018, 122, 22188-22193. | 3.1 | 54 |
| 53 | Near infrared light induced plasmonic hot hole transfer at a nano-heterointerface. Nature Communications, 2018, 9, 2314. | 12.8 | 103 |
| 54 | Observation of positive and negative trions in organic-inorganic hybrid perovskite nanocrystals. Physical Review Materials, 2018, 2, . | 2.4 | 35 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Coulomb-Enhanced Radiative Recombination of Biexcitons in Single Giant-Shell CdSe/CdS Core/Shell Nanocrystals. Journal of Physical Chemistry Letters, 2017, 8, 1961-1966. | 4.6 | 24 |
| 56 | Dynamics of Charged Excitons and Biexcitons in CsPbBr ₃ Perovskite Nanocrystals Revealed by Femtosecond Transient-Absorption and Single-Dot Luminescence Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 1413-1418. | 4.6 | 149 |
| 57 | Porphyrin Derivative-Protected Gold Cluster with a Pseudotetrahedral Shape. Journal of Physical Chemistry C, 2017, 121, 10760-10766. | 3.1 | 3 |
| 58 | Formation of Layerâ€by‣ayer Assembled Cocatalyst Films of S ^{2â^'} ‣tabilized Ni ₃ S ₄ Nanoparticles for Hydrogen Evolution Reaction. ChemNanoMat, 2017, 3, 764-771. | 2.8 | 5 |
| 59 | Harmonic Quantum Coherence of Multiple Excitons in PbS/CdS Core-Shell Nanocrystals. Physical Review Letters, 2017, 119, 247401. | 7.8 | 18 |
| 60 | Impact of Postsynthetic Surface Modification on Photoluminescence Intermittency in Formamidinium Lead Bromide Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2017, 8, 6041-6047. | 4.6 | 67 |
| 61 | Light-stimulated carrier dynamics of CuInS ₂ /CdS heterotetrapod nanocrystals. Nanoscale, 2016, 8, 9517-9520. | 5.6 | 22 |
| 62 | Tin Ion Directed Morphology Evolution of Copper Sulfide Nanoparticles and Tuning of Their Plasmonic Properties via Phase Conversion. Langmuir, 2016, 32, 7582-7587. | 3.5 | 30 |
| 63 | Formation of pseudomorphic nanocages from Cu ₂ O nanocrystals through anion exchange reactions. Science, 2016, 351, 1306-1310. | 12.6 | 101 |
| 64 | Simple Surfactant Concentrationâ€Dependent Shape Control of Polyhedral Fe ₃ O ₄ Nanoparticles and Their Magnetic Properties. ChemPhysChem, 2015, 16, 3200-3205. | 2.1 | 11 |
| 65 | Photoinduced Carrier Dynamics of Nearly Stoichiometric Oleylamine-Protected Copper Indium Sulfide Nanoparticles and Nanodisks. Journal of Physical Chemistry C, 2015, 119, 11100-11105. | 3.1 | 18 |
| 66 | Visible to near-infrared plasmon-enhanced catalytic activity of Pd hexagonal nanoplates for the Suzuki coupling reaction. Nanoscale, 2015, 7, 12435-12444. | 5.6 | 50 |
| 67 | Effect of Hydrogen and Oxygen Evolution Cocatalysts on Photocatalytic Activity of GaN:ZnO. European Journal of Inorganic Chemistry, 2014, 2014, 767-772. | 2.0 | 52 |
| 68 | Hard X-ray-induced optical luminescence via biomolecule-directed metal clusters. Chemical Communications, 2014, 50, 3549-3551. | 4.1 | 43 |
| 69 | Strongest π–metal orbital coupling in a porphyrin/gold cluster system. Chemical Science, 2014, 5, 2007-2010. | 7.4 | 15 |
| 70 | Assessment of Hot-Carrier Effects on Charge Separation in Type-II CdS/CdTe Heterostructured Nanorods. Journal of Physical Chemistry Letters, 2014, 5, 2951-2956. | 4.6 | 19 |
| 71 | Investigation on photo-induced charge separation in CdS/CdTe nanopencils. Chemical Science, 2014, 5, 3831-3835. | 7.4 | 12 |
| 72 | Charge Separation in Type-II Semiconductor Heterodimers. Journal of Physical Chemistry Letters, 2013, 4, 2867-2873. | 4.6 | 73 |

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|----|--|------------------|---------------------|
| 73 | Ultrafast dynamics and single particle spectroscopy of Au–CdSe nanorods. Physical Chemistry Chemical Physics, 2013, 15, 2141. | 2.8 | 37 |
| 74 | Polyol Synthesis of Size-Controlled Rh Nanoparticles and Their Application to Photocatalytic Overall Water Splitting under Visible Light. Journal of Physical Chemistry C, 2013, 117, 2467-2473. | 3.1 | 78 |
| 75 | Electroconductive π-Junction Au Nanoparticles. Bulletin of the Chemical Society of Japan, 2012, 85, 957-961. | 3.2 | 20 |
| 76 | Ideal Discrete Energy Levels in Synthesized Au Nanoparticles for Chemically Assembled Single-Electron Transistors. ACS Nano, 2012, 6, 9972-9977. | 14.6 | 24 |
| 77 | Platonic Hexahedron Composed of Six Organic Faces with an Inscribed Au Cluster. Journal of the American Chemical Society, 2012, 134, 816-819. | 13.7 | 25 |
| 78 | Electricâ€Field Enhancement Inducing Nearâ€Infrared Twoâ€Photon Absorption in an Indium–Tin Oxide Nanoparticle Film. Angewandte Chemie - International Edition, 2012, 51, 2640-2642. | 13.8 | 29 |
| 79 | Largeâ€Scale Synthesis of Highâ€Quality Metal Sulfide Semiconductor Quantum Dots with Tunable Surfaceâ€Plasmon Resonance Frequencies. Chemistry - A European Journal, 2012, 18, 9230-9238. | 3.3 | 49 |
| 80 | Exchange Coupling Interaction in <i>L</i> 1 ₀ -FePd/α-Fe Nanocomposite Magnets with Large Maximum Energy Products. ACS Nano, 2011, 5, 2806-2814. | 14.6 | 54 |
| 81 | Quantized Auger recombination of biexcitons in CdSe nanorods studied by time-resolved photoluminescence and transient-absorption spectroscopy. Physical Review B, 2011, 83, . | 3.2 | 41 |
| 82 | Controlled localized surface plasmon resonance wavelength for conductive nanoparticles over the ultraviolet to near-infrared region. Journal of Materials Chemistry, 2011, 21, 10238. | 6.7 | 40 |
| 83 | Spontaneous Formation of Wurzite-CdS/Zinc Blende-CdTe Heterodimers through a Partial Anion Exchange Reaction. Journal of the American Chemical Society, 2011, 133, 17598-17601. | 13.7 | 105 |
| 84 | Homoepitaxial Size Control and Largeâ€Scale Synthesis of Highly Monodisperse Amineâ€Protected Palladium Nanoparticles. Small, 2011, 7, 469-473. | 10.0 | 33 |
| 85 | Preparation of Core–Shell‧tructured Nanoparticles (with a Nobleâ€Metal or Metal Oxide Core and a) Tj ETQo European Journal, 2010, 16, 7750-7759. | 1 1 0.784 3.3 | 1314 rgBT (○ 156 |
| 86 | Photocatalytic Overall Water Splitting Promoted by Two Different Cocatalysts for Hydrogen and Oxygen Evolution under Visible Light. Angewandte Chemie - International Edition, 2010, 49, 4096-4099. | 13.8 | 356 |
| 87 | Drastic Structural Transformation of Cadmium Chalcogenide Nanoparticles Using Chloride Ions and Surfactants. Journal of the American Chemical Society, 2010, 132, 3280-3282. | 13.7 | 77 |
| 88 | Effect of End Group Position on the Formation of a Single Porphyrin Molecular Junction. Journal of Physical Chemistry C, 2009, 113, 9014-9017. | 3.1 | 35 |
| 89 | Indium Tin Oxide Nanoparticles with Compositionally Tunable Surface Plasmon Resonance Frequencies in the Near-IR Region. Journal of the American Chemical Society, 2009, 131, 17736-17737. | 13.7 | 508 |
| 90 | Highly dispersed noble-metal/chromia (core/shell) nanoparticles as efficient hydrogen evolution promoters for photocatalytic overall water splitting under visible light. Nanoscale, 2009, 1, 106. | 5.6 | 105 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 91 | Seed-mediated synthesis of metal sulfide patchy nanoparticles. Nanoscale, 2009, 1, 225. | 5.6 | 35 |
| 92 | Gold(0) Porphyrins on Gold Nanoparticles. Angewandte Chemie - International Edition, 2008, 47, 307-310. | 13.8 | 77 |
| 93 | Conversion of Anisotropically Phase-Segregated Pd/Ĵ³-Fe ₂ O ₃ Nanoparticles into Exchange-Coupled fct-FePd/Ĵ±-Fe Nanocomposite Magnets. Journal of the American Chemical Society, 2008, 130, 4210-4211. | 13.7 | 59 |
| 94 | Anisotropically Phase-Segregated Pd–Co–Pd Sulfide Nanoparticles Formed by Fusing Two Co–Pd Sulfide Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 1713-1715. | 13.8 | 49 |
| 95 | Self-Assembly of Small Gold Nanoparticles through Interligand Interaction. Journal of the American Chemical Society, 2006, 128, 13084-13094. | 13.7 | 68 |
| 96 | Synthesis of Stably Water-Soluble Gold Nanoparticles Protected by Porphyrin-Thiol Derivative. E-Journal of Surface Science and Nanotechnology, 2005, 3, 30-32. | 0.4 | 11 |
| 97 | Desirable Patterning of Metal Nanoparticles and Application to Nanodevices. Hyomen Kagaku, 2004, 25, 761-767. | 0.0 | 1 |