Taro Uematsu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2114753/publications.pdf

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46	728	567281	552781
papers	citations	15 h-index	26 g-index

47	47	47	774
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Narrow band-edge photoluminescence from AgInS2 semiconductor nanoparticles by the formation of amorphous IIIâ€“VI semiconductor shells. NPG Asia Materials, 2018, 10, 713-726.	7.9	91
2	Preparation of Luminescent AgInS₂â^'AgGaS₂ Solid Solution Nanoparticles and Their Optical Properties. Journal of Physical Chemistry Letters, 2010, 1, 3283-3287.	4.6	75
3	Atomic Resolution Imaging of Gold Nanoparticle Generation and Growth in Ionic Liquids. Journal of the American Chemical Society, 2014, 136, 13789-13797.	13.7	61
4	Wavelength-Tunable Band-Edge Photoluminescence of Nonstoichiometric Agâ€“Inâ€“S Nanoparticles via Ga³⁺ Doping. ACS Applied Materials & Interfaces, 2018, 10, 42844-42855.	8.0	55
5	Controlling Shape Anisotropy of ZnSâ€“AgInS₂ Solid Solution Nanoparticles for Improving Photocatalytic Activity. ACS Applied Materials & Interfaces, 2016, 8, 27151-27161.	8.0	53
6	Emission quench of water-soluble ZnSâ€“AgInS2 solid solution nanocrystals and its application to chemosensors. Chemical Communications, 2009, , 7485.	4.1	42
7	Tailored Photoluminescence Properties of Ag(In,Ga)Se₂ Quantum Dots for Near-Infrared In Vivo Imaging. ACS Applied Nano Materials, 2020, 3, 3275-3287.	5.0	32
8	Luminescent Quaternary Ag(In_xGa_{1â€“x})S₂/GaS_y Core/Shell Quantum Dots Prepared Using Dithiocarbamate Compounds and Photoluminescence Recovery via Post Treatment. Inorganic Chemistry, 2021, 60, 13101-13109.	4.0	30
9	Electroluminescence from band-edge-emitting AgInS2/GaSx core/shell quantum dots. Applied Physics Letters, 2020, 117, .	3.3	26
10	Photoluminescence Enhancement by Light Harvesting of Metalâ€“Organic Frameworks Surrounding Semiconductor Quantum Dots. Chemistry of Materials, 2021, 33, 1607-1617.	6.7	24
11	Direct surface modification of semiconductor quantum dots with metalâ€“organic frameworks. CrystEngComm, 2019, 21, 5568-5577.	2.6	21
12	Core Nanoparticle Engineering for Narrower and More Intense Band-Edge Emission from AgInS2/GaSx Core/Shell Quantum Dots. Nanomaterials, 2019, 9, 1763.	4.1	21
13	Surface ligand chemistry on quaternary Ag(In_xGa_{1â^'x})S₂ semiconductor quantum dots for improving photoluminescence properties. Nanoscale Advances, 2022, 4, 849-857.	4.6	20
14	Photoinduced Electron Transfer of ZnSâ€“AgInS2 Solid-Solution Semiconductor Nanoparticles: Emission Quenching and Photocatalytic Reactions Controlled by Electrostatic Forces. Journal of Physical Chemistry C, 2013, 117, 15667-15676.	3.1	18
15	Photoluminescence properties of quinary Agâ€“(In,Ga)â€“(S,Se) quantum dots with a gradient alloy structure for in vivo bioimaging. Journal of Materials Chemistry C, 2021, 9, 12791-12801.	5.5	18
16	Preparation of gold nanoparticles using reactive species produced in room-temperature ionic liquids by accelerated electron beam irradiation. RSC Advances, 2012, 2, 11801.	3.6	15
17	Photocatalytic Properties of TiO₂ Composites Immobilized with Gold Nanoparticle Assemblies Using the Streptavidinâ€“Biotin Interaction. Langmuir, 2016, 32, 6459-6467.	3.5	14
18	Efficient quantum-dot light-emitting diodes using ZnSâ€“AgInS2 solid-solution quantum dots in combination with organic charge-transport materials. Applied Physics Letters, 2020, 116, .	3.3	14

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19	Photoluminescence Stability Enhancement of Agâ€“Inâ€“Gaâ€“S/GaS_x Core/Shell Quantum Dots with Thicker Shells by the Addition of Gallium Diethyldithiocarbamate. Chemistry Letters, 2021, 50, 1863-1866.	1.3	12
20	Evaluation of Surface Ligands on Semiconductor Nanoparticle Surfaces Using Electron Transfer to Redox Species. Journal of Physical Chemistry C, 2016, 120, 16012-16023.	3.1	11
21	Supramolecular Linear Assemblies of Cytochrome b 562 Immobilized on a Gold Electrode. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 172-179.	3.7	9
22	Mannose-displaying fluorescent framboidal nanoparticles containing phenylboronic acid groups as a potential drug carrier for macrophage targeting. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1174-1181.	5.0	9
23	Long Term Optical Properties of ZnS-AgInS2 and AgInS2-AgGaS2 Solid-Solution Semiconductor Nanoparticles Dispersed in Polymer Matrices. Electrochemistry, 2011, 79, 813-816.	1.4	6
24	In Situ Surface Plasmon Resonance Measurements of Self-assembled Monolayers of Ferrocenylalkylthiols under Constant Potentials. Analytical Sciences, 2008, 24, 307-312.	1.6	5
25	Operando Observation of Vacuum and Liquid Interface while Conducting Gold Sputtering onto Ionic Liquid for Preparation of Au Nanoparticles. Electrochemistry, 2018, 86, 223-225.	1.4	5
26	[Paper] Green Electroluminescence Generated by Band-edge Transition in Ag-In-Ga-S/GaS_{<i>x</i>} Core/shell Quantum Dots. ITE Transactions on Media Technology and Applications, 2021, 9, 222-227.	0.5	5
27	The Capacitor Properties of KOH Activated Porous Carbon Beads Derived from Polyacrylonitrile. Bulletin of the Chemical Society of Japan, 2019, 92, 832-839.	3.2	4
28	Variations in Photoluminescence Intensity of a Quantum Dot Assembly Investigated by Its Adsorption on Cubic Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2021, 125, 8285-8293.	3.1	4
29	Encapsulation of AgInS₂/GaS_x core/shell quantum dots in In-fumarate metalâ€“organic frameworks for stability enhancement. CrystEngComm, 2022, 24, 3715-3723.	2.6	4
30	Synthesis of multicolor-emitting nitrogenâ€“sulfur co-doped carbon dots and their photochemical studies for sensing applications. RSC Advances, 2022, 12, 20054-20061.	3.6	4
31	Shape-controlled Synthesis of ZnSâ€“CuInS2â€“AgInS2 Solid Solution Nanoparticles and Their Photoluminescence Properties. Chemistry Letters, 2013, 42, 171-173.	1.3	3
32	Improvement of Optical Properties for Semiconductor Nanoparticles by the Precise Control of Electron and Energy Transfer. Electrochemistry, 2017, 85, 543-551.	1.4	3
33	Visualization of Electrochemical Reactions by Redox-dependent Quenching of Photoluminescence from ZnS-AgInS2 Solid Solution Semiconductor Nanoparticles. Electrochemistry, 2014, 82, 338-340.	1.4	2
34	Enhanced visible light response of a WO₃ photoelectrode with an immobilized fibrous gold nanoparticle assembly using an amyloid-Î² peptide. RSC Advances, 2017, 7, 1089-1092.	3.6	2
35	Electric Double Layer Capacitors Based on Polyacrylonitrile-derived Porous Carbon Beads: Effects of Particle Size and Composite. Electrochemistry, 2019, 87, 119-122.	1.4	2
36	Temperature dependences of photoluminescence intensities observed from AgInGaS and AgInGaS/GaSx coreâ€“shell nanoparticles. Journal of Nanophotonics, 2020, 14, 1.	1.0	1

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37	Colloidal Syntheses of Semiconductor Nanoparticles with Tunable Photoluminescence in Visible-Light Region and Their Application to Photo-functional Materials. Journal of the Japan Society of Colour Material, 2014, 87, 430-435.	0.1	0
38	Fabrication and Evaluation of Electroluminescence Devices Using Quantum Dots As Light Emitting Materials. ECS Meeting Abstracts, 2020, MA2020-02, 3638-3638.	0.0	0
39	Fabrication of Quantum Dots@Metalâ€“Organic Frameworks Nanocomposites By Direct Surface Modification. ECS Meeting Abstracts, 2020, MA2020-02, 2726-2726.	0.0	0
40	Embedding Quantum Dots with High Quantum Yield in Inorganic Matrix By Sol-Gel Method. ECS Meeting Abstracts, 2020, MA2020-02, 3639-3639.	0.0	0
41	Narrow-Band Photoluminescence from Cadmium-Free I-III-VI Ternary Semiconductor Quantum Dots By Surface Modification. ECS Meeting Abstracts, 2020, MA2020-02, 2727-2727.	0.0	0
42	Controlling Electronic Energy Structure of Agâ€“Î™nâ€“Gaâ€“Sâ€“Se Quantum Dots Showing Band-Edge Emission. ECS Meeting Abstracts, 2020, MA2020-02, 3121-3121.	0.0	0
43	(Keynote) Band-Edge Emission from AgInS₂/Ga₂S₃ Core/Shell Quantum Dots and Enhancement of Their Quantum Yield. ECS Meeting Abstracts, 2020, MA2020-02, 3076-3076.	0.0	0
44	Recent Progress of Multinary Semiconductor Quantum Dots Towards Luminescent and Photoelectrochemical Applications. Denki Kagaku, 2022, 90, 115-121.	0.0	0
45	(Invited, Digital Presentation) Controlling the Energy Structure of Ag(In,Ga)S Quantum Dots for Photocatalytic H₂ Evolution. ECS Meeting Abstracts, 2022, MA2022-01, 1576-1576.	0.0	0
46	Controlling Electronic Energy Structure of Near-IR-Responsive Ag(In,Ga)(S,Se)₂ Quantum Dots for In Vivo Bioimaging. ECS Meeting Abstracts, 2022, MA2022-01, 935-935.	0.0	0