Tomoya Oshikiri

List of Publications by Year
in descending order

51	2,248	24	47
papers	citations	h-index	g-index

257101 214527

59	59	59	3372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boosting Hydrogen Evolution at Visible Light Wavelengths by Using a Photocathode with Modal Strong Coupling between Plasmons and a Fabryâ€PÃ©rot Nanocavity. Chemistry - A European Journal, 2022, 28, .	1.7	9
2	Near-field engineering for boosting the photoelectrochemical activity to a modal strong coupling structure. Chemical Communications, 2021, 57, 524-527.	2.2	6
3	Hot-carrier Separation Induced by the Electric Field of a p-n Junction between Titanium Dioxide and Nickel Oxide. Chemistry Letters, 2021, 50, 374-377.	0.7	3
4	Near-Perfect Absorption of Light by Coherent Plasmonâ€“Exciton States. Nano Letters, 2021, 21, 3864-3870.	4.5	8
5	Revealing the Chiroptical Response of Plasmonic Nanostructures at the Nanofemto Scale. Nano Letters, 2021, 21, 4780-4786.	4.5	9
6	Water Oxidation under Modal Ultrastrong Coupling Conditions Using Gold/Silver Alloy Nanoparticles and Fabryâ€“PÃ©rot Nanocavities. Angewandte Chemie - International Edition, 2021, 60, 18438-18442.	7.2	20
7	Water Oxidation under Modal Ultrastrong Coupling Conditions Using Gold/Silver Alloy Nanoparticles and Fabryâ€“PÃ©rot Nanocavities. Angewandte Chemie, 2021, 133, 18586-18590.	1.6	5
8	Highly Sensitive and Spatially Homogeneous Surface-Enhanced Raman Scattering Substrate under Plasmonâ€“Nanocavity Coupling. Journal of Physical Chemistry C, 2021, 125, 19880-19886.	1.5	6
9	Extrinsic Chirality by Interference between Two Plasmonic Modes on an Achiral Rectangular Nanostructure. ACS Nano, 2021, 15, 16802-16810.	7.3	13
10	Enhancement of Selective Fixation of Dinitrogen to Ammonia under Modal Strong Coupling Conditions. European Journal of Inorganic Chemistry, 2020, 2020, 1396-1401.	1.0	5
11	Plasmon-induced electron injection into the large negative potential conduction band of Ga₂O₃for coupling with water oxidation. Nanoscale, 2020, 12, 22674-22679.	2.8	7
12	Site-Selective Deposition of a Cobalt Cocatalyst onto a Plasmonic Au/TiO₂ Photoanode for Improved Water Oxidation. ACS Applied Energy Materials, 2020, 3, 5142-5146.	2.5	26
13	Enhancement of Selective Fixation of Dinitrogen to Ammonia under Modal Strong Coupling Conditions. European Journal of Inorganic Chemistry, 2020, 2020, 1346-1346.	1.0	0
14	Interfacial Structure-Modulated Plasmon-Induced Water Oxidation on Strontium Titanate. ACS Applied Energy Materials, 2020, 3, 5675-5683.	2.5	15
15	Arbitrary control of the diffusion potential between a plasmonic metal and a semiconductor by an angstrom-thick interface dipole layer. Journal of Chemical Physics, 2020, 152, 034705.	1.2	2
16	Ammonia photosynthesis <i>via</i> an association pathway using a plasmonic photoanode and a zirconium cathode. Green Chemistry, 2019, 21, 4443-4448.	4.6	20
17	Efficient Hotâ€Electron Transfer under Modal Strong Coupling Conditions with Sacrificial Electron Donors. ChemNanoMat, 2019, 5, 1008-1014.	1.5	9
18	Control of plasmon dephasing time using stacked nanogap gold structures for strong near-field enhancement. Applied Materials Today, 2019, 14, 159-165.	2.3	33

#	Article	IF	Citations
19	Plasmon-Assisted Polarity Switching of a Photoelectric Conversion Device by UV and Visible Light Irradiation. Journal of Physical Chemistry C, 2018, 122, 14064-14071.	1.5	10
20	Solid-State Plasmonic Solar Cells. Chemical Reviews, 2018, 118, 2955-2993.	23.0	182
21	Manipulation of the dephasing time by strong coupling between localized and propagating surface plasmon modes. Nature Communications, 2018, 9, 4858.	5.8	85
22	Enhanced water splitting under modal strong coupling conditions. Nature Nanotechnology, 2018, 13, 953-958.	15.6	216
23	Toward a translational molecular ratchet: face-selective translation coincident with deuteration in a pseudo-rotaxane. Scientific Reports, 2018, 8, 8950.	1.6	15
24	Water splitting using a three-dimensional plasmonic photoanode with titanium dioxide nano-tunnels. Green Chemistry, 2017, 19, 2398-2405.	4.6	28
25	Optimization of a compact layer of TiO₂via atomic-layer deposition for high-performance perovskite solar cells. Sustainable Energy and Fuels, 2017, 1, 1533-1540.	2.5	59
26	A pseudo-rotaxane of Î±-cyclodextrin and a two-station axis molecule consisting of pyridinium and decamethylene moieties, and its deuteration in deuterium oxide. Tetrahedron, 2017, 73, 4988-4993.	1.0	3
27	Plasmon-induced photoelectrochemical biosensor for in situ real-time measurement of biotin-streptavidin binding kinetics under visible light irradiation. Analytica Chimica Acta, 2017, 957, 70-75.	2.6	6
28	Versatile plasmonic-effects at the interface of inverted perovskite solar cells. Nanoscale, 2017, 9, 1229-1236.	2.8	50
29	Exploring the Near-Field of Strongly Coupled Waveguide-Plasmon Modes by Plasmon-Induced Photocurrent Generation Using a Gold Nanograting-Loaded Titanium Dioxide Photoelectrode. Journal of Physical Chemistry C, 2017, 121, 21627-21633.	1.5	10
30	Near-field spectral properties of coupled plasmonic nanoparticle arrays. Optics Express, 2017, 25, 6883.	1.7	23
31	Dual Strong Couplings Between TPPS J-Aggregates and Aluminum Plasmonic States. Journal of Physical Chemistry Letters, 2016, 7, 2786-2791.	2.1	32
32	Plasmonâ€Induced Water Splitting Using Metallicâ€Nanoparticleâ€Loaded Photocatalysts and Photoelectrodes. ChemPhysChem, 2016, 17, 199-215.	1.0	54
33	Selective Dinitrogen Conversion to Ammonia Using Water and Visible Light through Plasmonâ€Induced Charge Separation. Angewandte Chemie - International Edition, 2016, 55, 3942-3946.	7.2	230
34	Selective Dinitrogen Conversion to Ammonia Using Water and Visible Light through Plasmonâ€Induced Charge Separation. Angewandte Chemie, 2016, 128, 4010-4014.	1.6	83
35	Surface plasmon optical antennae in the infrared region with high resonant efficiency and frequency selectivity. Optics Express, 2016, 24, 17728.	1.7	7
36	Cobalt Oxide (CoO_{<i>x</i>}) as an Efficient Hole-Extracting Layer for High-Performance Inverted Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 33592-33600.	4.0	122

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37	Exploring Coupled Plasmonic Nanostructures in the Near Field by Photoemission Electron Microscopy. ACS Nano, 2016, 10, 10373-10381.	7.3	51
38	Properties of Plasmon-Induced Photoelectric Conversion on a TiO₂/NiO pâ€“n Junction with Au Nanoparticles. Journal of Physical Chemistry Letters, 2016, 7, 1004-1009.	2.1	71
39	Plasmon-enhanced Water Splitting Utilizing the Heterojunction Synergistic Effect between SrTiO3 and Rutile-TiO2. Chemistry Letters, 2015, 44, 618-620.	0.7	8
40	Plasmon-enhanced light energy conversion using gold nanostructured oxide semiconductor photoelectrodes. Pure and Applied Chemistry, 2015, 87, 547-555.	0.9	2
41	Plasmon-induced artificial photosynthesis. Interface Focus, 2015, 5, 20140082.	1.5	7
42	Cocatalyst Effects on Hydrogen Evolution in a Plasmon-Induced Water-Splitting System. Journal of Physical Chemistry C, 2015, 119, 8889-8897.	1.5	38
43	Plasmonâ€Induced Ammonia Synthesis through Nitrogen Photofixation with Visible Light Irradiation. Angewandte Chemie - International Edition, 2014, 53, 9802-9805.	7.2	211
44	Plasmonâ€Assisted Water Splitting Using Two Sides of the Same SrTiO₃ Singleâ€Crystal Substrate: Conversion of Visible Light to Chemical Energy. Angewandte Chemie - International Edition, 2014, 53, 10350-10354.	7.2	119
45	Improvement of Plasmon-Enhanced Photocurrent Generation by Interference of TiO₂ Thin Film. Journal of Physical Chemistry C, 2013, 117, 24733-24739.	1.5	29
46	Primary structure control of ArF resist polymer by regulating feed rate of monomers and initiator. Proceedings of SPIE, 2011, , .	0.8	1
47	Face selective translation of a cyclodextrin ring along an axle. Chemical Communications, 2009, , 5515.	2.2	27
48	Relative Rotational Motion between Î±-Cyclodextrin Derivatives and a Stiff Axle Molecule. Journal of Organic Chemistry, 2008, 73, 2496-2502.	1.7	31
49	Face-Selective [2]- and [3]Rotaxanes: Kinetic Control of the Threading Direction of Cyclodextrins. Chemistry - A European Journal, 2007, 13, 7091-7098.	1.7	54
50	Rotaxanes with unidirectional cyclodextrin array. Journal of Physics Condensed Matter, 2006, 18, S1809-S1816.	0.7	24
51	Kinetic Control of Threading of Cyclodextrins onto Axle Molecules. Journal of the American Chemical Society, 2005, 127, 12186-12187.	6.6	100