

# Tetsuro Majima

## List of Publications by Year in descending order

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55  
papers

4,404  
citations

159358

30  
h-index

161609

54  
g-index

56  
all docs

56  
docs citations

56  
times ranked

5483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Free Photocatalyst for H <sub>2</sub> Evolution in Visible to Near-Infrared Region: Black Phosphorus/Graphitic Carbon Nitride. <i>Journal of the American Chemical Society</i> , 2017, 139, 13234-13242.	6.6	907
2	Z-scheme Photocatalytic Water Splitting on a 2D Heterostructure of Black Phosphorus/Bismuth Vanadate Using Visible Light. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2160-2164.	7.2	506
3	Z-scheme Photocatalytic Water Splitting on a 2D Heterostructure of Black Phosphorus/Bismuth Vanadate Using Visible Light. <i>Angewandte Chemie</i> , 2018, 130, 2182-2186.	1.6	356
4	Au/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Nanostructures Sensitized with Black Phosphorus for Plasmon-Enhanced Photocatalytic Hydrogen Production in Visible and Near-Infrared Light. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2064-2068.	7.2	284
5	Faster Electron Injection and More Active Sites for Efficient Photocatalytic H <sub>2</sub> Evolution in g-C <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> Hybrid. <i>Small</i> , 2018, 14, e1703277.	5.2	206
6	g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Mesocrystals Composite for H <sub>2</sub> Evolution under Visible-Light Irradiation and Its Charge Carrier Dynamics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34844-34854.	4.0	163
7	2D/2D Heterostructured CdS/Ws <sub>2</sub> with Efficient Charge Separation Improving H <sub>2</sub> Evolution under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20458-20466.	4.0	137
8	High-rate solar-light photoconversion of CO <sub>2</sub> to fuel: controllable transformation from C <sub>1</sub> to C <sub>2</sub> products. <i>Energy and Environmental Science</i> , 2018, 11, 3183-3193.	15.6	136
9	In situ nitrogen-doped hollow-TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts with efficient charge separation boosting water reduction under visible light. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9671-9681.	5.2	118
10	Phase Effect of Ni <sub>3</sub> P <sub>2</sub> Hybridized with g-C <sub>3</sub> N <sub>4</sub> for Photocatalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30583-30590.	4.0	116
11	Black Phosphorus Sensitized TiO <sub>2</sub> Mesocrystal Photocatalyst for Hydrogen Evolution with Visible and Near-Infrared Light Irradiation. <i>ACS Catalysis</i> , 2019, 9, 3618-3626.	5.5	115
12	CO <sub>2</sub> , water, and sunlight to hydrocarbon fuels: a sustained sunlight to fuel (Joule-to-Joule) photoconversion efficiency of 1%. <i>Energy and Environmental Science</i> , 2019, 12, 2685-2696.	15.6	109
13	Topotactic Epitaxy of SrTiO <sub>3</sub> Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5299-5303.	7.2	92
14	The role of nitrogen defects in graphitic carbon nitride for visible-light-driven hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2318-2324.	1.3	90
15	In Situ Observation of Single Au Triangular Nanoprism Etching to Various Shapes for Plasmonic Photocatalytic Hydrogen Generation. <i>ACS Nano</i> , 2017, 11, 968-974.	7.3	63
16	Shallow Trap State-Induced Efficient Electron Transfer at the Interface of Heterojunction Photocatalysts: The Crucial Role of Vacancy Defects. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40860-40867.	4.0	63
17	Two-Dimensional Au-Nanoprism/Reduced Graphene Oxide/Pt-Nanoframe as Plasmonic Photocatalysts with Multiplasmon Modes Boosting Hot Electron Transfer for Hydrogen Generation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 844-849.	2.1	61
18	Hot electron-driven hydrogen evolution using anisotropic gold nanostructure assembled monolayer MoS <sub>2</sub> . <i>Nanoscale</i> , 2017, 9, 1520-1526.	2.8	55

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19	Anisotropic Ag <sub>2</sub> S@Au Triangular Nanoprisms with Desired Configuration for Plasmonic Photocatalytic Hydrogen Generation in Visible/Near-Infrared Region. <i>Advanced Functional Materials</i> , 2018, 28, 1706969.	7.8	54
20	Single-molecule and -particle probing crystal edge/corner as highly efficient photocatalytic sites on a single TiO <sub>2</sub> particle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18827-18833.	3.3	54
21	Au/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Nanostructures Sensitized with Black Phosphorus for Plasmon-Enhanced Photocatalytic Hydrogen Production in Visible and Near-Infrared Light. <i>Angewandte Chemie</i> , 2017, 129, 2096-2100.	1.6	51
22	Ultrafast spectroscopic study of plasmon-induced hot electron transfer under NIR excitation in Au triangular nanoprism/g-C <sub>3</sub> N <sub>4</sub> for photocatalytic H <sub>2</sub> production. <i>Chemical Communications</i> , 2019, 55, 6014-6017.	2.2	45
23	Defect state-induced efficient hot electron transfer in Au nanoparticles/reduced TiO <sub>2</sub> mesocrystal photocatalysts. <i>Chemical Communications</i> , 2018, 54, 6052-6055.	2.2	43
24	Charge Carrier Dynamics in TiO <sub>2</sub> Mesocrystals with Oxygen Vacancies for Photocatalytic Hydrogen Generation under Solar Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15163-15170.	1.5	43
25	Facet-Dependent Photoreduction on Single ZnO Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 340-346.	2.1	42
26	Femtosecond time-resolved diffuse reflectance study on facet engineered charge-carrier dynamics in Ag <sub>3</sub> PO <sub>4</sub> for antibiotics photodegradation. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119479.	10.8	42
27	Dual function of graphene oxide for assisted exfoliation of black phosphorus and electron shuttle in promoting visible and near-infrared photocatalytic H <sub>2</sub> evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117864.	10.8	41
28	Monitoring Transport Behavior of Charge Carriers in a Single CdS@CuS Nanowire via In Situ Single-Particle Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4017-4024.	2.1	37
29	Charge separation in a nanostep structured perovskite-type photocatalyst induced by successive surface heterojunctions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10442-10449.	5.2	34
30	Chemical design principles of next-generation antiviral surface coatings. <i>Chemical Society Reviews</i> , 2021, 50, 9741-9765.	18.7	31
31	Charge transfer dynamics in DNA revealed by time-resolved spectroscopy. <i>Chemical Science</i> , 2017, 8, 1752-1762.	3.7	29
32	Aggregation-Induced Singlet Oxygen Generation: Functional Fluorophore and Anthrylphenylene Dyad Self-Assemblies. <i>Chemistry - A European Journal</i> , 2018, 24, 636-645.	1.7	29
33	The Development of Functional Mesocrystals for Energy Harvesting, Storage, and Conversion. <i>Chemistry - A European Journal</i> , 2018, 24, 6295-6307.	1.7	26
34	Near Bandgap Excitation Inhibits the Interfacial Electron Transfer of Semiconductor/Cocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5920-5924.	4.0	23
35	Controllable nanothorns on TiO <sub>2</sub> mesocrystals for efficient charge separation in hydrogen evolution. <i>Chemical Communications</i> , 2017, 53, 5306-5309.	2.2	19
36	Size-Dependent Relaxation Processes of Photoexcited [Cycloparaphenylenes (C <sub>n</sub> = 5-12): Significant Contribution of Internal Conversion in Smaller Rings. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4737-4742.	1.1	19

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37	Defect-mediated electron transfer in photocatalysts. <i>Chemical Communications</i> , 2021, 57, 3532-3542.	2.2	19
38	Facet Effects of Ag <sub>3</sub> PO <sub>4</sub> on Charge-Carrier Dynamics: Trade-Off Between Photocatalytic Activity and Charge-Carrier Lifetime. <i>Chemistry - A European Journal</i> , 2018, 24, 14928-14932.	1.7	18
39	Shallow trap state-enhanced photocatalytic hydrogen evolution over thermal-decomposed polymeric carbon nitride. <i>Chemical Communications</i> , 2020, 56, 5921-5924.	2.2	18
40	Controlled Synthesis of Gold Nanoparticles on Fluorescent Nanodiamond via Electron-Beam-Induced Reduction Method for Dual-Modal Optical and Electron Bioimaging. <i>ACS Applied Nano Materials</i> , 2018, 1, 355-363.	2.4	17
41	Topotactic Epitaxy of SrTiO <sub>3</sub> Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. <i>Angewandte Chemie</i> , 2017, 129, 5383-5387.	1.6	14
42	Charge-Separated Mixed Valency in an Unsymmetrical Acceptor-Donor Triad Based on Diarylboryl and Triarylamine Units. <i>Journal of Organic Chemistry</i> , 2019, 84, 8910-8920.	1.7	14
43	Pulse Radiolysis of TIPS-Pentacene and a Fluorene-bridged Bis(pentacene): Evidence for Intramolecular Singlet-Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3934-3938.	2.1	12
44	Influence of Charge Distribution on Structural Changes of Aromatic Imide Derivatives upon One-Electron Reduction Revealed by Time-Resolved Resonance Raman Spectroscopy during Pulse Radiolysis. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8738-8744.	1.1	8
45	Antraquinone-2-Sulfonate as a Microbial Photosensitizer and Capacitor Drives Solar-to-N <sub>2</sub> O Production with a Quantum Efficiency of Almost Unity. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5161-5169.	4.6	8
46	Factors affecting photocatalytic activity of visible light-responsive titanium dioxide doped with chromium ions. <i>Catalysis Science and Technology</i> , 2018, 8, 4726-4733.	2.1	7
47	Proton Transfer Accompanied by the Oxidation of Adenosine. <i>Chemistry - A European Journal</i> , 2019, 25, 7711-7718.	1.7	6
48	Excited-State Properties of Radical Anions of C70 and Its Derivatives: Significant Differences from the Case of C60. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13385-13390.	1.5	5
49	Significant structural relaxations of excited [ <i>n</i> ]cycloparaphenylene dications ( <i>n</i> = 5-9). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29207-29211.	1.3	5
50	Spirally Configured ( <i>cis</i> -Stilbene) Trimers: Steady-State and Time-Resolved Photophysical Studies and Organic Light-Emitting Diode Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25561-25569.	4.0	4
51	Radical Ions of a ĩ-Bowl Sumanene: Effects of Strained Structure on the Electronic Transitions. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4902-4906.	1.1	2
52	Formation of the Charge-Localized Dimer Radical Cation of 2-Ethyl-10-dimethoxyanthracene in Solution Phase. <i>Chemistry - A European Journal</i> , 2019, 25, 5586-5594.	1.7	2
53	Innentitelbild: Z-Scheme Photocatalytic Water Splitting on a 2D Heterostructure of Black Phosphorus/Bismuth Vanadate Using Visible Light ( <i>Angew. Chem.</i> 8/2018). <i>Angewandte Chemie</i> , 2018, 130, 2026-2026.	1.6	1
54	Frontispiece: The Development of Functional Mesocrystals for Energy Harvesting, Storage, and Conversion. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0

#	ARTICLE	IF	CITATIONS
55	Amplifying fluorescence signal contrast of aptamer-modified microspheres inspired by whispering-gallery mode lasing. RSC Advances, 2018, 8, 20822-20828.	1.7	0