Tsuyoshi Takata

List of Publications by Year
in descending order

36 papers	7,510 citations	201385 27 h-index	377514 34 g-index
37 all docs	37 docs citations	37 times ranked	7471 citing authors

#	Article	IF	Citations
1	Particulate photocatalysts for overall water splitting. Nature Reviews Materials, 2017, 2, .	23.3	1,427
2	GaN:ZnO Solid Solution as a Photocatalyst for Visible-Light-Driven Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 8286-8287.	6.6	1,317
3	Oxysulfide Sm2Ti2S2O5as a Stable Photocatalyst for Water Oxidation and Reduction under Visible Light Irradiation (Î» â‰¤ 650 nm). Journal of the American Chemical Society, 2002, 124, 13547-13553.	6.6	890
4	Overall water splitting by Ta3N5 nanorod single crystals grown on the edges of KTaO3 particles. Nature Catalysis, 2018, 1, 756-763.	16.1	390
5	RuO2-Loaded Î²-Ge3N4as a Non-Oxide Photocatalyst for Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 4150-4151.	6.6	388
6	A Complex Perovskiteâ€Type Oxynitride: The First Photocatalyst for Water Splitting Operable at up to 600â€...nm. Angewandte Chemie - International Edition, 2015, 54, 2955-2959.	7.2	379
7	Photocatalytic Decomposition of Water on Spontaneously Hydrated Layered Perovskites. Chemistry of Materials, 1997, 9, 1063-1064.	3.2	351
8	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. Journal of the American Chemical Society, 2017, 139, 1675-1683.	6.6	322
9	Photocatalytic Overall Water Splitting under Visible Light Using ATaO₂N (A = Ca, Sr, Ba) and WO₃ in a IO₃^{â^'}/I^{â^'} Shuttle Redox Mediated System. Chemistry of Materials, 2009, 21, 1543-1549.	3.2	294
10	Defect Engineering of Photocatalysts by Doping of Aliovalent Metal Cations for Efficient Water Splitting. Journal of Physical Chemistry C, 2009, 113, 19386-19388.	1.5	240
11	Fabrication of a Coreâ€“Shell-Type Photocatalyst via Photodeposition of Group IV and V Transition Metal Oxyhydroxides: An Effective Surface Modification Method for Overall Water Splitting. Journal of the American Chemical Society, 2015, 137, 9627-9634.	6.6	178
12	Mgâ€“Zr Cosubstituted Ta₃N₅ Photoanode for Lower-Onset-Potential Solar-Driven Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2015, 137, 12780-12783.	6.6	176
13	Photocatalytic overall water splitting on the perovskite-type transition metal oxynitride CaTaO₂N under visible light irradiation. Chemical Communications, 2015, 51, 7191-7194.	2.2	134
14	Photocatalytic Hydrogen Evolution from Water Using Copper Gallium Sulfide under Visible-Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 11215-11220.	1.5	126
15	Highly active tantalum(v) nitride nanoparticles prepared from a mesoporous carbon nitride template for photocatalytic hydrogen evolution under visible light irradiation. Journal of Materials Chemistry, 2010, 20, 4295.	6.7	122
16	Crystal structure and optical properties of (Ga1â^'xZnx)(N1â^'xOx) oxynitride photocatalyst (x=0.13). Chemical Physics Letters, 2005, 416, 225-228.	1.2	79
17	Electronic Band Structures and Photochemical Properties of Laâ^'Ga-based Oxysulfides. Journal of Physical Chemistry C, 2008, 112, 11978-11984.	1.5	71
18	Preparation of Crystallized Mesoporous Ta₃N₅ Assisted by Chemical Vapor Deposition of Tetramethyl Orthosilicate. Chemistry of Materials, 2010, 22, 3854-3861.	3.2	70

#	Article	IF	Citations
19	Band engineering of perovskite-type transition metal oxynitrides for photocatalytic overall water splitting. Journal of Materials Chemistry A, 2016, 4, 4544-4552.	5.2	69
20	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. Advanced Functional Materials, 2016, 26, 7011-7019.	7.8	62
21	Overall Water Splitting on the Transitionâ€Metal Oxynitride Photocatalyst LaMg_{1/3}Ta_{2/3}O₂N over a Large Portion of the Visibleâ€Light Spectrum. Chemistry - A European Journal, 2016, 22, 1854-1862.	1.7	62
22	Development of non-oxide semiconductors as light harvesting materials in photocatalytic and photoelectrochemical water splitting. Dalton Transactions, 2017, 46, 10529-10544.	1.6	62
23	Synthesis of Structurally Defined Ta₃N₅ Particles by Flux-Assisted Nitridation. Crystal Growth and Design, 2011, 11, 33-38.	1.4	55
24	Preparation and Characterization of Sodium Tantalate Thin Films by Hydrothermalâ^'Electrochemical Synthesis. Chemistry of Materials, 2005, 17, 2422-2426.	3.2	53
25	Overall water splitting by photoelectrochemical cells consisting of (ZnSe)_{0.85}(CuIn_{0.7}Ga_{0.3}Se₂)_{0.15} photocathodes and BiVO₄ photoanodes. Chemical Communications, 2017, 53, 11674-11677.	2.2	47
26	Fabrication of photocatalyst panels and the factors determining their activity for water splitting. Catalysis Science and Technology, 2014, 4, 325-328.	2.1	40
27	Direct fabrication and nitridation of a high-quality NaTaO3 crystal layer onto a tantalum substrate. CrystEngComm, 2012, 14, 7178.	1.3	31
28	Crystal Structure Analysis of (Ga_{0.93}Zn_{0.07})(N_{0.90}O_{0.10}) Oxynitride Photocatalyst. Materials Transactions, 2006, 47, 295-297.	0.4	24
29	Synthesis of Concentrated Methylcyclohexane as Hydrogen Carrier through Photoelectrochemical Conversion of Toluene and Water. ChemSusChem, 2017, 10, 659-663.	3.6	11
30	Fabrication of Photoelectrodes from LaTiO2N Particles for Photoelectrochemical Water Splitting. Bulletin of the Chemical Society of Japan, 2013, 86, 540-546.	2.0	10
31	Semiconductor monolayer assemblies with oriented crystal faces. CrystEngComm, 2012, 14, 59-62.	1.3	4
32	Photoelectrodes: Vertically Aligned Ta₃N₅ Nanorod Arrays for Solarâ€Driven Photoelectrochemical Water Splitting (Adv. Mater. 1/2013). Advanced Materials, 2013, 25, 152-152.	11.1	4
33	Photocatalytic Hydrodechlorination of Trace Carbon Tetrachloride (CCl4) in Aqueous Medium. Industrial & Engineering Chemistry Research, 2014, 53, 9600-9607.	1.8	4
34	Modification of Sm<inf>2</inf>Ti<inf>2</inf>S<inf>2</inf>O<inf>5</inf> with two cocatalysts for remarkably enhanced hydrogen production from water using visible light. , 2010, , .		0
35	Enhanced activity of Tantalum (V) nitride nanoparticles for toluene decomposition under visible light irradiation. , 2010, , .		0
36	Modification of Tantalum (V) Nitride with zirconium oxide for photocatalytic hydrogen production under visible light irradiation. , 2012, , .		0