

Hideki Kato

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

162
papers

19,495
citations

63
h-index

139
g-index

178
ext. papers

20,629
ext. citations

5.2
avg, IF

6.86
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 162 | Influences of pulverization and annealing treatment on the photocatalytic activity of BiVO ₄ for oxygen evolution. <i>Sustainable Energy and Fuels</i> , 2022 , 6, 1698-1707 | 5.8 | 2 |
| 161 | Fabrication of high-efficiency YAG:Ce ³⁺ phosphors via concurrent optimization of firing atmosphere and fluxing agent. <i>Optical Materials</i> , 2022 , 128, 112386 | 3.3 | 0 |
| 160 | SnO-SnO ₂ modified two-dimensional MXene Ti ₃ C ₂ T for acetone gas sensor working at room temperature. <i>Journal of Materials Science and Technology</i> , 2021 , 73, 128-138 | 9.1 | 39 |
| 159 | Utilization of Perovskite-Type Oxynitride La _{0.5} Sr _{0.5} Ta _{0.5} Ti _{0.5} O ₂ N as an O ₂ -Evolving Photocatalyst in Z-Scheme Water Splitting. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2056-2060 | 6.1 | 6 |
| 158 | Two-Dimensional Perovskite Oxynitride K ₂ LaTa ₂ O ₆ N with an H ⁺ /K ⁺ Exchangeability in Aqueous Solution Forming a Stable Photocatalyst for Visible-Light H ₂ Evolution. <i>Angewandte Chemie</i> , 2020 , 132, 9823-9830 | 3.6 | 2 |
| 157 | Two-Dimensional Perovskite Oxynitride K ₂ LaTa ₂ O ₆ N with an H ⁺ /K ⁺ Exchangeability in Aqueous Solution Forming a Stable Photocatalyst for Visible-Light H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9736-9743 | 16.4 | 19 |
| 156 | Surface Engineering of 1T/2H-MoS ₂ Nanoparticles by O ₂ Plasma Irradiation as a Potential Humidity Sensor for Breathing and Skin Monitoring Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7835-7846 | 5.6 | 9 |
| 155 | Super stable (Ba,Sr)LuAl ₂ Si ₂ O ₂ N ₅ :Ce ³⁺ ,Eu ²⁺ phosphors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4510-4517 | 4.17 | 16 |
| 154 | 1T/2H-MoS ₂ engineered by in-situ ethylene glycol intercalation for improved toluene sensing response at room temperature. <i>Advanced Powder Technology</i> , 2020 , 31, 1868-1878 | 4.6 | 8 |
| 153 | Alkali-assisted hydrothermal preparation of g-C ₃ N ₄ /rGO nanocomposites with highly enhanced photocatalytic NO _x removal activity. <i>Applied Surface Science</i> , 2020 , 521, 146213 | 6.7 | 22 |
| 152 | A Water-Splitting System with a Cobalt (II,III) Oxide Co-Catalyst-Loaded Bismuth Vanadate Photoanode Along with an Organo-Photocathode. <i>ChemElectroChem</i> , 2020 , 7, 5029-5035 | 4.3 | 4 |
| 151 | Highly Robust Oxynitride Phosphor against Thermal Oxidization and Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12286-12294 | 8.3 | 11 |
| 150 | Lewis Acid and Base Catalysis of YNbO ₄ Toward Aqueous-Phase Conversion of Hexose and Triose Sugars to Lactic Acid in Water. <i>ChemCatChem</i> , 2020 , 12, 350-359 | 5.2 | 13 |
| 149 | Synthesis of Ba _{1-x} Y _x Si ₂ O ₅ N and discussion based on structure analysis and DFT calculation. <i>Journal of Solid State Chemistry</i> , 2019 , 276, 266-271 | 3.3 | 2 |
| 148 | Z-scheme water splitting by microspherical Rh-doped SrTiO ₃ photocatalysts prepared by a spray drying method. <i>Applied Catalysis B: Environmental</i> , 2019 , 252, 222-229 | 21.8 | 19 |
| 147 | Crystal structures of Ca _{1-x} Y _x SiO ₃ N (0 ≤ x ≤ 1) comprising of an isolated [Si(O,N)] unit. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019 , 75, 260-263 | 0.7 | 1 |
| 146 | Hydrothermal Synthesis of Pseudocubic Rutile-Type Titania Particles. <i>Ceramics</i> , 2019 , 2, 56-63 | 1.7 | 3 |

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|-----|--|------|----|
| 145 | B-site-ordered Double-perovskite Oxide Up-conversion Phosphors Doped with Yb and Ho, Er, or Tm. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2019 , 32, 593-596 | 0.7 | 4 |
| 144 | Water-Dispersed Silicates and Water-Soluble Phosphates, and Their Use in Sol-Gel Synthesis of Silicate- and Phosphate-Based Materials 2018 , 205-231 | | |
| 143 | Undoped Layered Perovskite Oxynitride Li ₂ LaTa ₂ O ₆ N for Photocatalytic CO ₂ Reduction with Visible Light. <i>Angewandte Chemie</i> , 2018 , 130, 8286-8290 | 3.6 | 16 |
| 142 | Undoped Layered Perovskite Oxynitride Li LaTa O N for Photocatalytic CO Reduction with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8154-8158 | 16.4 | 51 |
| 141 | Expansion of the photoresponse window of a BiVO photocatalyst by doping with chromium(vi).. <i>RSC Advances</i> , 2018 , 8, 38140-38145 | 3.7 | 10 |
| 140 | Ce-Based Compounds Capable of Photoluminescence by Charge Transfer Excitation under Near-Ultraviolet-Visible Light. <i>Inorganic Chemistry</i> , 2018 , 57, 14524-14531 | 5.1 | 8 |
| 139 | Structural Change in SrSiO ₃ Induced by Introduction of Nitrogen. <i>Chemistry Letters</i> , 2018 , 47, 1327-1329 | 1.7 | 3 |
| 138 | Photoluminescence Properties of Layered Perovskite-Type Strontium Scandium Oxyfluoride Activated With Mn. <i>Frontiers in Chemistry</i> , 2018 , 6, 467 | 5 | 10 |
| 137 | Cobalt Oxide Nanoclusters on Rutile Titania as Bifunctional Units for Water Oxidation Catalysis and Visible Light Absorption: Understanding the Structure-Activity Relationship. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6114-6122 | 9.5 | 45 |
| 136 | Synthesis and photocatalytic properties of tetragonal tungsten bronze type oxynitrides. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 444-448 | 21.8 | 10 |
| 135 | Development of Various Metal Sulfide Photocatalysts Consisting of d0, d5, and d10 Metal Ions for Sacrificial H ₂ Evolution under Visible Light Irradiation. <i>Chemistry Letters</i> , 2017 , 46, 616-619 | 1.7 | 22 |
| 134 | Site occupancy and luminescence properties of Ca ₃ Ln(AlO) ₃ (BO ₃) ₄ :Ce ³⁺ ,Tb ³⁺ ,Mn ²⁺ (Ln = Y, Gd). <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4578-4583 | 7.1 | 34 |
| 133 | Synthesis, Structure, and Photoluminescence of a Novel Oxynitride BaYSi ₂ O ₅ N Activated by Eu ²⁺ and Ce ³⁺ . <i>Chemistry Letters</i> , 2017 , 46, 795-797 | 1.7 | 6 |
| 132 | Growth of TiO ₂ microspheres with a radially oriented configuration. <i>CrystEngComm</i> , 2017 , 19, 4832-4837 | 3.3 | 5 |
| 131 | Effect of hydroxy and carboxy groups on anisotropic growth of rutile-type titania under hydrothermal conditions. <i>Journal of Asian Ceramic Societies</i> , 2017 , 5, 320-325 | 2.4 | 7 |
| 130 | Analysis of growth kinetics and impact of NH ₃ on the morphology evolution of hexagonal-prism shaped Y ₄ O(OH) ₉ NO ₃ /Y ₂ O ₃ single crystals. <i>Materials Research Bulletin</i> , 2017 , 95, 597-606 | 5.1 | 4 |
| 129 | Synthesis of Rare Earth Niobate and Tantalate Powders via a Peroxo Complex Route. <i>Chemistry Letters</i> , 2017 , 46, 1515-1517 | 1.7 | 5 |
| 128 | Photoluminescence Properties of Double Perovskite Tantalates Activated with Mn ⁴⁺ , AE ₂ LaTaO ₆ :Mn ⁴⁺ (AE = Ca, Sr, and Ba). <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18837-18844 | 3.8 | 27 |

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| 127 | Effects of the SrTiO support on visible-light water oxidation with CoO nanoparticles. <i>Dalton Transactions</i> , 2017 , 46, 16959-16966 | 4.3 | 8 |
| 126 | A high-luminescence BaZrSi ₃ O ₉ :Eu ²⁺ blue-green-emitting phosphor: Synthesis and mechanism. <i>Journal of Luminescence</i> , 2017 , 181, 211-216 | 3.8 | 11 |
| 125 | Effect of Eu ²⁺ concentration on the photoluminescence properties of red-emitting CaSrSiO ₄ :Eu ²⁺ phosphors. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 823-826 | 1 | 2 |
| 124 | Exploration of New Phosphors Using a Mineral-Inspired Approach in Combination with Solution Parallel Synthesis 2016 , 1-40 | | 1 |
| 123 | Effect of Site Occupancies on Deep-red Emission from Eu ²⁺ -activated Ca ₂ SiO ₄ Phosphor. <i>Chemistry Letters</i> , 2016 , 45, 321-323 | 1.7 | 6 |
| 122 | Observation of visible light-driven water splitting by TiO ₂ crystallized glass. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22055-22058 | 6.7 | 6 |
| 121 | Water-Dispersed Silicates and Water-Soluble Phosphates, and Their Use in Sol-Gel Synthesis of Silicate- and Phosphate-Based Materials 2016 , 1-27 | | 1 |
| 120 | A water splitting system using an organo-photocathode and titanium dioxide photoanode capable of bias-free H ₂ and O ₂ evolution. <i>Chemical Communications</i> , 2016 , 52, 7735-7 | 5.8 | 20 |
| 119 | Self-assembly of polyethyleneamine-intercalated H ₂ Ti ₂ O ₅ nanoparticles into spherical agglomerates. <i>Journal of Materials Research</i> , 2016 , 31, 564-572 | 2.5 | 1 |
| 118 | Anomalous Orange Light-Emitting (Sr,Ba) ₂ SiO ₄ :Eu(2+) Phosphors for Warm White LEDs. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11615-20 | 9.5 | 64 |
| 117 | Hierarchical structures of rutile exposing high-index facets. <i>Journal of Crystal Growth</i> , 2015 , 418, 86-91 | 1.6 | 14 |
| 116 | Improvement of hydrogen evolution under visible light over Zn _{1-x} (CuGa) _x Ga ₂ S ₄ photocatalysts by synthesis utilizing a polymerizable complex method. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14239-14244 | 13.244 | 10 |
| 115 | Photocatalytic water oxidation under visible light by valence band controlled oxynitride solid solutions LaTaON ₂ BrTiO ₃ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11824-11829 | 13 | 32 |
| 114 | The hydrothermal and solvothermal synthesis of LiTaO ₃ photocatalyst: Suppressing the deterioration of the water splitting activity without using a cocatalyst. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5638-5643 | 6.7 | 21 |
| 113 | Crystal structures and luminescence properties of Eu ²⁺ -activated new NaBa _{0.5} Ca _{0.5} PO ₄ and NaBaCa(PO ₄) ₂ . <i>Dalton Transactions</i> , 2015 , 44, 1900-4 | 4.3 | 12 |
| 112 | Luminescence properties of BaZrSi ₃ O ₉ :Eu synthesized by an aqueous solution method. <i>Journal of Luminescence</i> , 2015 , 158, 328-332 | 3.8 | 16 |
| 111 | Design of crystal structures, morphologies and functionalities of titanium oxide using water-soluble complexes and molecular control agents. <i>Polymer Journal</i> , 2015 , 47, 78-83 | 2.7 | 9 |
| 110 | Synthesis of picolinate-iron(III) compounds through an aqueous solution process. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 751-755 | 1 | 1 |

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| 109 | Photoluminescence Properties of Mn ⁴⁺ -activated Perovskite-type Titanates, La ₂ MTiO ₆ :Mn ⁴⁺ (M = Mg and Zn). <i>Chemistry Letters</i> , 2015 , 44, 1541-1543 | 1.7 | 63 |
| 108 | Novel Titanium Complexes with a Reversible Structural Change on Solvent Adsorption and Desorption. <i>Chemistry Letters</i> , 2015 , 44, 1050-1052 | 1.7 | 3 |
| 107 | Discovery of Novel Delafossite-type Compounds Composed of Copper(I) Lithium Titanium with Photocatalytic Activity for H ₂ Evolution under Visible Light. <i>Chemistry Letters</i> , 2015 , 44, 973-975 | 1.7 | 7 |
| 106 | Syntheses of Silicate Phosphors by Aqueous Solution Techniques using Water-Dispersible Inorganic Si Cluster. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 127-133 | 0.2 | 2 |
| 105 | Large Redshifts in Emission and Excitation from Eu ²⁺ -Activated Sr ₂ SiO ₄ and Ba ₂ SiO ₄ Phosphors Induced by Controlling Eu ²⁺ Occupancy on the Basis on Crystal-Site Engineering. <i>Optics and Tailoring of deep-red luminescence in Ca₂SiO₄:Eu(2+)</i> . <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7756-9 | 0.3 | 16 |
| 104 | Hydrothermal synthesis of magnetite particles with uncommon crystal facetsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2014 , 2, 258-262 | 16.4 | 172 |
| 103 | The significance of phosphate source in the preparation of functional luminescent phosphate materials. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 626-629 | 2.4 | 33 |
| 102 | Synthesis of (Ca _{1-x} Sr _x) ₄ Si ₂ O ₇ F ₂ oxyfluoride solid solutions and their photoluminescence properties activated by Eu ²⁺ ions. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 630-633 | 1 | 6 |
| 101 | Tailoring of Deep-Red Luminescence in Ca ₂ SiO ₄ :Eu ²⁺ . <i>Angewandte Chemie</i> , 2014 , 126, 7890-7893 | 1 | 1 |
| 100 | Large enhancement of photocatalytic activity by chemical etching of TiO ₂ crystallized glass. <i>APL Materials</i> , 2014 , 2, 106103 | 3.6 | 13 |
| 99 | Insights into a selective synthesis of anatase, rutile, and brookite-type titanium dioxides by a hydrothermal treatment of titanium complexes. <i>Journal of Materials Research</i> , 2014 , 29, 90-97 | 5.7 | 10 |
| 98 | Development of two novel Eu ²⁺ -activated phosphors in the Na ₃ ScSi ₃ O ₁₀ system and their photoluminescence properties. <i>Journal of Luminescence</i> , 2014 , 154, 285-289 | 2.5 | 9 |
| 97 | Photocatalytic activities of Cu ₃ xLa _{1-x} Ta ₇ O ₁₉ solid solutions for H ₂ evolution under visible light irradiation. <i>Catalysis Science and Technology</i> , 2013 , 3, 3147 | 3.8 | 4 |
| 96 | Enhancement of luminescence properties of a K ₂ SrPO ₄ :Eu ²⁺ phosphor prepared using a solution method with a water-soluble phosphate oligomer. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5741 | 5.5 | 15 |
| 95 | Synthesis of highly active rhodium-doped SrTiO ₃ powders in Z-scheme systems for visible-light-driven photocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12327 ¹³ | 7.1 | 14 |
| 94 | The effect of Au cocatalyst loaded on La-doped NaTaO ₃ on photocatalytic water splitting and O ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2013 , 136-137, 89-93 | 21.8 | 76 |
| 93 | [Co(bpy) ₃](^{3+/2+}) and [Co(phen) ₃](^{3+/2+}) electron mediators for overall water splitting under sunlight irradiation using Z-scheme photocatalyst system. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5441-9 | 16.4 | 173 |
| 92 | | | |

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| 91 | Control of valence band potential and photocatalytic properties of $\text{Na}_x\text{La}_{1-x}\text{TaO}_4 + 2x\text{N}_2\text{O}_x$ oxynitride solid solutions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3667 | 13 | 54 |
| 90 | Fabrication of SrTiO_3 exposing characteristic facets using molten salt flux and improvement of photocatalytic activity for water splitting. <i>Catalysis Science and Technology</i> , 2013 , 3, 1733 | 5.5 | 66 |
| 89 | Eu^{2+} -Activated CaSrSiO_4 : a New Red-Emitting Oxide Phosphor for White-Light-Emitting Diodes. <i>Applied Physics Express</i> , 2013 , 6, 072101 | 2.4 | 46 |
| 88 | Orange Emission from $(\text{Ba}_{1-x}\text{Sr}_x)_4\text{Al}_2\text{Si}_7\text{:Eu}^{2+}$ Thioaluminate Phosphors with Visible Light Excitation. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, R3107-R3111 | 2 | 12 |
| 87 | Electrical Properties of Amorphous Carbon Semiconductor Prepared Using a Naphthalene Precursor. <i>Bulletin of the Chemical Society of Japan</i> , 2013 , 86, 45-50 | 5.1 | 4 |
| 86 | Photocatalytic Water Splitting over $\text{LaTa}_7\text{O}_{19}$ Composed of TaO_7 Pentagonal Bipyramids and TaO_6 Octahedra. <i>Chemistry Letters</i> , 2013 , 42, 744-746 | 1.7 | 6 |
| 85 | Synthesis of Titanium Dioxide Nanocrystals with Controlled Crystal- and Micro-Structures from Titanium Complexes. <i>Nanomaterials and Nanotechnology</i> , 2013 , 3, 23 | 2.9 | 29 |
| 84 | Exploration of New Phosphors Using a Mineral-Inspired Approach in Combination with Solution Parallel Synthesis. <i>Optics and Photonics Journal</i> , 2013 , 03, 5-12 | 0.3 | 18 |
| 83 | A Highly Luminous $\text{LiCaPO}_4\text{:Eu}^{2+}$ Phosphor Synthesized by a Solution Method Employing a Water-Soluble Phosphate Ester. <i>Optics and Photonics Journal</i> , 2013 , 03, 13-18 | 0.3 | 15 |
| 82 | Development of a Novel Green-Emitting Phosphate Phosphor $\text{KSrY}(\text{PO}_4)_2\text{:Eu}^{2+}$. <i>Optics and Photonics Journal</i> , 2013 , 03, 19-24 | 0.3 | 5 |
| 81 | Synthesis of a Novel Bluish-Green Emitting Oxynitride $\text{Ca}_3\text{Al}_8\text{Si}_4\text{O}_{17}\text{N}_3$ Phosphor in a | 0.3 | 5 |
| 80 | Synthesis of spindle and square bipyramid-shaped anatase-type titanium dioxide crystals by a solvothermal method using ethylenediamine. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 494-499 [†] | | 11 |
| 79 | Synthesis of $\text{Zn}_2\text{SiO}_4\text{:Mn}^{2+}$ by homogeneous precipitation using propylene glycol-modified silane. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17272 | | 30 |
| 78 | Synthesis of an oxynitride-based green phosphor $\text{Ba}_3\text{Si}_6\text{O}_{12}\text{N}_2\text{:Eu}^{2+}$ via an aqueous-solution process, using propylene-glycol-modified silane. <i>Journal of Information Display</i> , 2012 , 13, 107-111 | 4.1 | 9 |
| 77 | Control of $\text{NaAlSiO}_4\text{:Eu}^{2+}$ photoluminescence properties by charge-compensated aliovalent element substitutions. <i>Journal of Information Display</i> , 2012 , 13, 97-100 | 4.1 | 18 |
| 76 | Hydrothermal synthesis of hierarchical TiO_2 microspheres using a novel titanium complex coordinated by picolinic acid. <i>Journal of the Ceramic Society of Japan</i> , 2011 , 119, 513-516 | 1 | 12 |
| 75 | Structure and catalysis of cellulose-derived amorphous carbon bearing SO_3H groups. <i>ChemSusChem</i> , 2011 , 4, 778-84 | 8.3 | 99 |
| 74 | SO_3H -bearing mesoporous carbon with highly selective catalysis. <i>Microporous and Mesoporous Materials</i> , 2011 , 143, 443-450 | 5.3 | 70 |

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|----|---|------|-----|
| 73 | Synthesis and luminescence properties of a Cyan-blue thiosilicate-based Phosphor SrSi ₂ S ₅ :Eu ²⁺ . <i>Journal of Information Display</i> , 2010 , 11, 135-139 | 4.1 | 6 |
| 72 | A Simple Preparation Method of Visible-Light-Driven BiVO ₄ Photocatalysts From Oxide Starting Materials (Bi ₂ O ₃ and V ₂ O ₅) and Their Photocatalytic Activities. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2010 , 132, | 2.3 | 48 |
| 71 | Novel Stannite-type Complex Sulfide Photocatalysts Al ₂ -Zn-AIV-S ₄ (Al = Cu and Ag; AIV = Sn and Ge) for Hydrogen Evolution under Visible-Light Irradiation. <i>Chemistry of Materials</i> , 2010 , 22, 1402-1409 | 9.6 | 191 |
| 70 | Structure and Acid Catalysis of Mesoporous Nb ₂ O ₅ ·nH ₂ O. <i>Chemistry of Materials</i> , 2010 , 22, 3332-3339 | 9.6 | 77 |
| 69 | Synthesis and acid catalysis of cellulose-derived carbon-based solid acid. <i>Solid State Sciences</i> , 2010 , 12, 1029-1034 | 3.4 | 115 |
| 68 | The effect of alkaline earth metal ion dopants on photocatalytic water splitting by NaTaO ₃ powder. <i>ChemSusChem</i> , 2009 , 2, 873-7 | 8.3 | 84 |
| 67 | Hydrolysis of Cellulose by a Solid Acid Catalyst under Optimal Reaction Conditions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3181-3188 | 3.8 | 146 |
| 66 | Time-Resolved Infrared Absorption Study of NaTaO ₃ Photocatalysts Doped with Alkali Earth Metals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13918-13923 | 3.8 | 50 |
| 65 | Adsorption-enhanced hydrolysis of beta-1,4-glucan on graphene-based amorphous carbon bearing SO ₃ H, COOH, and OH groups. <i>Langmuir</i> , 2009 , 25, 5068-75 | 4 | 234 |
| 64 | Water splitting into H ₂ and O ₂ over niobate and titanate photocatalysts with (111) plane-type layered perovskite structure. <i>Energy and Environmental Science</i> , 2009 , 2, 306 | 35.4 | 227 |
| 63 | Photocatalytic Activities of Layered Titanates and Niobates Ion-Exchanged with Sn ²⁺ under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17678-17682 | 3.8 | 88 |
| 62 | Role of Sn ²⁺ in the Band Structure of SnM ₂ O ₆ and Sn ₂ M ₂ O ₇ (M = Nb and Ta) and Their Photocatalytic Properties. <i>Chemistry of Materials</i> , 2008 , 20, 1299-1307 | 9.6 | 218 |
| 61 | Visible light response of AgLi _{1/3} M _{2/3} O ₂ (M = Ti and Sn) synthesized from layered Li ₂ MO ₃ using molten AgNO ₃ . <i>Journal of Materials Chemistry</i> , 2008 , 18, 647-653 | | 70 |
| 60 | Photoinduced Dynamics of TiO ₂ Doped with Cr and Sb. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1167-1173 | 3.8 | 102 |
| 59 | Hydrolysis of cellulose by amorphous carbon bearing SO ₃ H, COOH, and OH groups. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12787-93 | 16.4 | 839 |
| 58 | The effect of co-catalyst for Z-scheme photocatalysis systems with an Fe ³⁺ /Fe ²⁺ electron mediator on overall water splitting under visible light irradiation. <i>Journal of Catalysis</i> , 2008 , 259, 133-137 | 7.3 | 329 |
| 57 | Effects of doping of metal cations on morphology, activity, and visible light response of photocatalysts. <i>Chemical Physics</i> , 2007 , 339, 104-110 | 2.3 | 178 |
| 56 | Photocatalytic Properties of HCa ₂ Nb ₃ O ₁₀ Prepared by Polymerizable Complex Method. <i>Journal of the Ceramic Society of Japan</i> , 2007 , 115, 511-513 | 1 | 7 |

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| 55 | Investigations of Electronic Structures and Photocatalytic Activities under Visible Light Irradiation of Lead Molybdate Replaced with Chromium(VI). <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 885-893 | 5.1 | 62 |
| 54 | Role of Iron Ion Electron Mediator on Photocatalytic Overall Water Splitting under Visible Light Irradiation Using Z-Scheme Systems. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 2457-2464 | 5.1 | 115 |
| 53 | Photocatalytic O ₂ Evolution of Rhodium and Antimony-Codoped Rutile-Type TiO ₂ under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17420-17426 | 3.8 | 113 |
| 52 | Time-resolved infrared spectroscopy of K ₃ Ta ₃ B ₂ O ₁₂ photocatalysts for water splitting. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7883-6 | 3.4 | 25 |
| 51 | Photophysical properties and photocatalytic activities of bismuth molybdates under visible light irradiation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17790-7 | 3.4 | 344 |
| 50 | Photocatalytic Hydrogen Evolution on ZnS/CuInS ₂ /AgInS ₂ Solid Solution Photocatalysts with Wide Visible Light Absorption Bands. <i>Chemistry of Materials</i> , 2006 , 18, 1969-1975 | 9.6 | 251 |
| 49 | Highly Efficient Water Splitting over K ₃ Ta ₃ B ₂ O ₁₂ Photocatalyst without Loading Cocatalyst. <i>Chemistry Letters</i> , 2006 , 35, 274-275 | 1.7 | 47 |
| 48 | Synthesis of SnNb ₂ O ₆ Nanoplates and Their Photocatalytic Properties. <i>Chemistry Letters</i> , 2006 , 35, 578-579 | 1.7 | 38 |
| 47 | Water Splitting into H ₂ and O ₂ over Ba ₅ Nb ₄ O ₁₅ Photocatalysts with Layered Perovskite Structure Prepared by Polymerizable Complex Method. <i>Chemistry Letters</i> , 2006 , 35, 1052-1053 | 1.7 | 83 |
| 46 | Nanosized Au Particles as an Efficient Cocatalyst for Photocatalytic Overall Water Splitting. <i>Catalysis Letters</i> , 2006 , 108, 7-10 | 2.8 | 122 |
| 45 | Control of Surface Structure and Effect of Cocatalyst Aiming at Water Splitting over Photocatalyst. <i>Hyomen Kagaku</i> , 2006 , 27, 386-391 | | 1 |
| 44 | Nickel and either tantalum or niobium-codoped TiO ₂ and SrTiO ₃ photocatalysts with visible-light response for H ₂ or O ₂ evolution from aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 2241-5 | 3.6 | 255 |
| 43 | Photocatalytic H ₂ evolution under visible-light irradiation over band-structure-controlled (CuIn) _x Zn ₂ (1-x)S ₂ solid solutions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7323-9 | 3.4 | 228 |
| 42 | Water Splitting into H ₂ and O ₂ over Cs ₂ Nb ₄ O ₁₁ Photocatalyst. <i>Chemistry Letters</i> , 2005 , 34, 54-55 | 1.7 | 62 |
| 41 | A Novel Photodeposition Method in the Presence of Nitrate Ions for Loading of an Iridium Oxide Cocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2005 , 34, 946-947 | 1.7 | 72 |
| 40 | The relationship between photocatalytic activity and crystal structure in strontium tantalates. <i>Journal of Catalysis</i> , 2005 , 232, 102-107 | 7.3 | 112 |
| 39 | Visible-light-induced H ₂ evolution from an aqueous solution containing sulfide and sulfite over a ZnS-CuInS ₂ -AgInS ₂ solid-solution photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3565-8 | 16.4 | 404 |
| 38 | Visible-Light-Induced H ₂ Evolution from an Aqueous Solution Containing Sulfide and Sulfite over a ZnS/CuInS ₂ /AgInS ₂ Solid-Solution Photocatalyst. <i>Angewandte Chemie</i> , 2005 , 117, 3631-3634 | 3.6 | 107 |

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| 37 | Water Splitting into H ₂ and O ₂ over Cs ₂ Nb ₄ O ₁₁ Photocatalyst.. <i>ChemInform</i> , 2005 , 36, no | | 1 |
| 36 | H ₂ evolution from an aqueous methanol solution on SrTiO ₃ photocatalysts codoped with chromium and tantalum ions under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 163, 181-186 | 4.7 | 294 |
| 35 | Photocatalytic Activities of Noble Metal Ion Doped SrTiO ₃ under Visible Light Irradiation.. <i>ChemInform</i> , 2004 , 35, no | | 9 |
| 34 | Electrochemical approach to evaluate the mechanism of photocatalytic water splitting on oxide photocatalysts. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4205-4212 | 3.3 | 52 |
| 33 | Photocatalytic H ₂ evolution reaction from aqueous solutions over band structure-controlled (AgIn) _x Zn ₂ (1-x)S ₂ solid solution photocatalysts with visible-light response and their surface nanostructures. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13406-13 | 16.4 | 726 |
| 32 | Photocatalytic Activities of Noble Metal Ion Doped SrTiO ₃ under Visible Light Irradiation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8992-8995 | 3.4 | 738 |
| 31 | Construction of Z-scheme Type Heterogeneous Photocatalysis Systems for Water Splitting into H ₂ and O ₂ under Visible Light Irradiation. <i>Chemistry Letters</i> , 2004 , 33, 1348-1349 | 1.7 | 356 |
| 30 | Formation of Surface Nano-step Structures and Improvement of Photocatalytic Activities of NaTaO ₃ by Doping of Alkaline Earth Metal Ions. <i>Chemistry Letters</i> , 2004 , 33, 1260-1261 | 1.7 | 73 |
| 29 | Energy Structure and Photocatalytic Activity of Niobates and Tantalates Containing Sn(II) with a 5s ² Electron Configuration. <i>Chemistry Letters</i> , 2004 , 33, 28-29 | 1.7 | 105 |
| 28 | Photophysical and Photocatalytic Properties of Molybdates and Tungstates with a Scheelite Structure. <i>Chemistry Letters</i> , 2004 , 33, 1216-1217 | 1.7 | 64 |
| 27 | Strategies for the Development of Visible-light-driven Photocatalysts for Water Splitting. <i>Chemistry Letters</i> , 2004 , 33, 1534-1539 | 1.7 | 361 |
| 26 | Photocatalytic water splitting into H ₂ and O ₂ over various tantalate photocatalysts. <i>Catalysis Today</i> , 2003 , 78, 561-569 | 5.3 | 269 |
| 25 | Highly efficient water splitting into H ₂ and O ₂ over lanthanum-doped NaTaO ₃ photocatalysts with high crystallinity and surface nanostructure. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3082-9 | 16.4 | 1422 |
| 24 | Photophysical properties and photocatalytic activities under visible light irradiation of silver vanadates. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3061 | 3.6 | 281 |
| 23 | Photodynamics of NaTaO ₃ Catalysts for Efficient Water Splitting. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14383-14387 | 3.4 | 139 |
| 22 | Visible Light Response of Wide Band Gap Semiconductor Photocatalysts by Doping of Transition Metal Ions. Aiming at Water Splitting.. <i>Hyomen Kagaku</i> , 2003 , 24, 31-38 | | 1 |
| 21 | H ₂ Evolution from Aqueous Potassium Sulfite Solutions under Visible Light Irradiation over a Novel Sulfide Photocatalyst NaInS ₂ with a Layered Structure. <i>Chemistry Letters</i> , 2002 , 31, 882-883 | 1.7 | 67 |
| 20 | Polymerizable Complex Synthesis of Pure Sr ₂ Nb _x Ta _{2-x} O ₇ Solid Solutions with High Photocatalytic Activities for Water Decomposition into H ₂ and O ₂ . <i>Chemistry of Materials</i> , 2002 , 14, 3369-3376 | 9.6 | 136 |

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|----|---|------|------|
| 19 | Photocatalytic reduction of nitrate ions over tantalate photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2833-2838 | 3.6 | 65 |
| 18 | AgInZn7S9 solid solution photocatalyst for H ₂ evolution from aqueous solutions under visible light irradiation. <i>Chemical Communications</i> , 2002 , 1958-9 | 5.8 | 287 |
| 17 | Visible-Light-Response and Photocatalytic Activities of TiO ₂ and SrTiO ₃ Photocatalysts Codoped with Antimony and Chromium. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5029-5034 | 3.4 | 732 |
| 16 | Role of Ag ⁺ in the Band Structures and Photocatalytic Properties of AgMO ₃ (M: Ta and Nb) with the Perovskite Structure. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12441-12447 | 3.4 | 425 |
| 15 | Energy structure and photocatalytic activity for water splitting of Sr ₂ (Ta _{1-x} Nb _x) ₂ O ₇ solid solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 145, 129-133 | 4.7 | 67 |
| 14 | Water Splitting into H ₂ and O ₂ on Alkali Tantalate Photocatalysts ATaO ₃ (A = Li, Na, and K). <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4285-4292 | 3.4 | 579 |
| 13 | Selective Preparation of Monoclinic and Tetragonal BiVO ₄ with Scheelite Structure and Their Photocatalytic Properties. <i>Chemistry of Materials</i> , 2001 , 13, 4624-4628 | 9.6 | 869 |
| 12 | Photocatalytic Water Splitting into H ₂ and O ₂ over K ₂ LnTa ₅ O ₁₅ Powder. <i>Chemistry Letters</i> , 2000 , 29, 1212-1213 | 1.7 | 1350 |
| 11 | Effect of lanthanide-doping into NaTaO ₃ photocatalysts for efficient water splitting. <i>Chemical Physics Letters</i> , 2000 , 331, 373-377 | 2.5 | 268 |
| 10 | Water Splitting into H ₂ and O ₂ on New Sr ₂ M ₂ O ₇ (M = Nb and Ta) Photocatalysts with Layered Perovskite Structures: Factors Affecting the Photocatalytic Activity. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 571-575 | 3.4 | 540 |
| 9 | Highly efficient decomposition of pure water into H ₂ and O ₂ over NaTaO ₃ photocatalysts. <i>Catalysis Letters</i> , 1999 , 58, 153-155 | 2.8 | 165 |
| 8 | A Novel Aqueous Process for Preparation of Crystal Form-Controlled and Highly Crystalline BiVO ₄ Powder from Layered Vanadates at Room Temperature and Its Photocatalytic and Photophysical Properties. <i>Journal of the American Chemical Society</i> , 1999 , 121, 11459-11467 | 16.4 | 1633 |
| 7 | Overall Water Splitting into H ₂ and O ₂ under UV Irradiation on NiO-loaded ZnNb ₂ O ₆ Photocatalysts Consisting of d ₁₀ and d ₀ Ions. <i>Chemistry Letters</i> , 1999 , 28, 1197-1198 | 1.7 | 48 |
| 6 | Photocatalytic Decomposition of Pure Water into H ₂ and O ₂ over SrTa ₂ O ₆ Prepared by a Flux Method. <i>Chemistry Letters</i> , 1999 , 28, 1207-1208 | 1.7 | 84 |
| 5 | Ultraviolet Luminescence of Rb ₄ Ta ₆ O ₁₇ with a Layered Structure. <i>Chemistry Letters</i> , 1999 , 28, 959-960 | 1.7 | 3 |
| 4 | New tantalate photocatalysts for water decomposition into H ₂ and O ₂ . <i>Chemical Physics Letters</i> , 1998 , 295, 487-492 | 2.5 | 339 |
| 3 | Photocatalytic O ₂ evolution under visible light irradiation on BiVO ₄ in aqueous AgNO ₃ solution. <i>Catalysis Letters</i> , 1998 , 53, 229-230 | 2.8 | 579 |
| 2 | Photocatalytic Activities of Na ₂ W ₄ O ₁₃ with Layered Structure. <i>Chemistry Letters</i> , 1997 , 26, 421-422 | 1.7 | 46 |

- 1 Photocatalytic Decomposition of Water into H₂ and O₂ over Novel Photocatalyst K₃Ta₃Si₂O₁₃ with Pillared Structure Consisting of Three TaO₆ Chains. *Chemistry Letters*, **1997**, 26, 867-868 1.7 86