Jinhua Ye

List of Publications by Citations

653 papers	52,198 citations	113 h-index	207 g-index
709 ext. papers	59,031 ext. citations	8.9 avg, IF	8.08 L-index

#	Paper	IF	Citations
653	Nano-photocatalytic materials: possibilities and challenges. *Advanced Materials*, **2012**, 24, 229-51	24	2967
652	Direct splitting of water under visible light irradiation with an oxide semiconductor photocatalyst. *Nature*, **2001**, 414, 625-7	50.4	2760
651	An orthophosphate semiconductor with photooxidation properties under visible-light irradiation. *Nature Materials*, **2010**, 9, 559-64	27	1648
650	Facet effect of single-crystalline Ag3PO4 sub-microcrystals on photocatalytic properties. *Journal of the American Chemical Society*, **2011**, 133, 6490-2	16.4	1156
649	Phosphorus-doped carbon nitride solid: enhanced electrical conductivity and photocurrent generation. *Journal of the American Chemical Society*, **2010**, 132, 6294-5	16.4	1014
648	MoS2/graphene cocatalyst for efficient photocatalytic H2 evolution under visible light irradiation. *ACS Nano*, **2014**, 8, 7078-87	16.7	772
647	Efficient photocatalytic decomposition of organic contaminants over CaBi2O4 under visible-light irradiation. *Angewandte Chemie - International Edition*, **2004**, 43, 4463-6	16.4	674
646	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. *Advanced Functional Materials*, **2015**, 25, 998-1013	15.6	582
645	Hierarchical WO3 Hollow Shells: Dendrite, Sphere, Dumbbell, and Their Photocatalytic Properties. *Advanced Functional Materials*, **2008**, 18, 1922-1928	15.6	504
644	Facile synthesis of rhombic dodecahedral AgX/Ag3PO4 (X = Cl, Br, I) heterocrystals with enhanced photocatalytic properties and stabilities. *Physical Chemistry Chemical Physics*, **2011**, 13, 10071-5	3.6	486
643	Single-Atom Catalysts: Emerging Multifunctional Materials in Heterogeneous Catalysis. *Advanced Energy Materials*, **2018**, 8, 1701343	21.8	485
642	Synthesis of bismuth vanadate nanoplates with exposed {001} facets and enhanced visible-light photocatalytic properties. *Chemical Communications*, **2010**, 46, 1893-5	5.8	458
641	Photocatalytic Decomposition of Organic Contaminants by Bi2WO6 Under Visible Light Irradiation. *Catalysis Letters*, **2004**, 92, 53-56	2.8	453
640	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. *Angewandte Chemie - International Edition*, **2016**, 55, 14310-14314	16.4	450
639	Reduced TiO2 nanotube arrays for photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2013**, 1, 5766	13	429
638	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p□ Homojunctions for Enhanced Photocatalytic Hydrogen Production. *Advanced Functional Materials*, **2016**, 26, 6822-6829	15.6	429
637	Ultrathin W18O49 nanowires with diameters below 1 nm: synthesis, near-infrared absorption, photoluminescence, and photochemical reduction of carbon dioxide. *Angewandte Chemie - International Edition*, **2012**, 51, 2395-9	16.4	423

636	Targeted Synthesis of 2H- and 1T-Phase MoS Monolayers for Catalytic Hydrogen Evolution. *Advanced Materials*, **2016**, 28, 10033-10041	24	415
635	Light-Switchable Oxygen Vacancies in Ultrafine Bi O Br Nanotubes for Boosting Solar-Driven Nitrogen Fixation in Pure Water. *Advanced Materials*, **2017**, 29, 1701774	24	392
634	Active Sites Implanted Carbon Cages in Core-Shell Architecture: Highly Active and Durable Electrocatalyst for Hydrogen Evolution Reaction. *ACS Nano*, **2016**, 10, 684-94	16.7	371
633	Recent advances in TiO2-based photocatalysis. *Journal of Materials Chemistry A*, **2014**, 2, 12642	13	371
632	Non-covalent doping of graphitic carbon nitride polymer with graphene: controlled electronic structure and enhanced optoelectronic conversion. *Energy and Environmental Science*, **2011**, 4, 4517	35.4	371
631	Efficient visible driven photocatalyst, silver phosphate: performance, understanding and perspective. *Chemical Society Reviews*, **2015**, 44, 7808-28	58.5	344
630	Electrostatic Self-Assembly of Nanosized Carbon Nitride Nanosheet onto a Zirconium Metal□Organic Framework for Enhanced Photocatalytic CO2 Reduction. *Advanced Functional Materials*, **2015**, 25, 5360-5367	15.6	344
629	Nanometals for Solar-to-Chemical Energy Conversion: From Semiconductor-Based Photocatalysis to Plasmon-Mediated Photocatalysis and Photo-Thermocatalysis. *Advanced Materials*, **2016**, 28, 6781-803	24	322
628	Constructing Solid-Gas-Interfacial Fenton Reaction over Alkalinized-CN Photocatalyst To Achieve Apparent Quantum Yield of 49% at 420 nm. *Journal of the American Chemical Society*, **2016**, 138, 13289-13297	16.4	294
627	Photophysical and photocatalytic properties of SrTiO3 doped with Cr cations on different sites. *Journal of Physical Chemistry B*, **2006**, 110, 15824-30	3.4	291
626	An Amine-Functionalized Iron(III) Metal-Organic Framework as Efficient Visible-Light Photocatalyst for Cr(VI) Reduction. *Advanced Science*, **2015**, 2, 1500006	13.6	289
625	Photophysical and Photocatalytic Properties of AgInW2O8. *Journal of Physical Chemistry B*, **2003**, 107, 14265-14269	3.4	289
624	In situ growth of metal particles on 3D urchin-like WO3 nanostructures. *Journal of the American Chemical Society*, **2012**, 134, 6508-11	16.4	287
623	Surface-alkalinization-induced enhancement of photocatalytic H2 evolution over SrTiO3-based photocatalysts. *Journal of the American Chemical Society*, **2012**, 134, 1974-7	16.4	287
622	Photothermal conversion of CO□into CH□with H□over Group VIII nanocatalysts: an alternative approach for solar fuel production. *Angewandte Chemie - International Edition*, **2014**, 53, 11478-82	16.4	275
621	Efficient photocatalytic decomposition of acetaldehyde over a solid-solution perovskite (Ag0.75Sr0.25)(Nb0.75Ti0.25)O3 under visible-light irradiation. *Journal of the American Chemical Society*, **2008**, 130, 2724-5	16.4	274
620	Promoting Active Species Generation by Plasmon-Induced Hot-Electron Excitation for Efficient Electrocatalytic Oxygen Evolution. *Journal of the American Chemical Society*, **2016**, 138, 9128-36	16.4	269
619	Wet chemical synthesis of nitrogen-doped graphene towards oxygen reduction electrocatalysts without high-temperature pyrolysis. *Journal of Materials Chemistry*, **2012**, 22, 6575		257

618	Photocatalytic and photoelectric properties of cubic Ag3PO4 sub-microcrystals with sharp corners and edges. *Chemical Communications*, **2012**, 48, 3748-50	5.8	256
617	Effects of Substituting Sr2+ and Ba2+ for Ca2+on the Structural Properties and Photocatalytic Behaviors of CaIn2O4. *Chemistry of Materials*, **2004**, 16, 1644-1649	9.6	255
616	AgAl(1-x)Ga(x)O2 solid-solution photocatalysts: continuous modulation of electronic structure toward high-performance visible-light photoactivity. *Journal of the American Chemical Society*, **2011**, 133, 7757-63	16.4	248
615	Metal-organic frameworks for photocatalysis. *Physical Chemistry Chemical Physics*, **2016**, 18, 7563-72	3.6	244
614	Hydrogen production using zinc-doped carbon nitride catalyst irradiated with visible light. *Science and Technology of Advanced Materials*, **2011**, 12, 034401	7.1	242
613	Enhanced incident photon-to-electron conversion efficiency of tungsten trioxide photoanodes based on 3D-photonic crystal design. *ACS Nano*, **2011**, 5, 4310-8	16.7	236
612	Superconducting PrBa2Cu3Ox. *Physical Review Letters*, **1998**, 80, 1074-1077	7.4	232
611	Photoassisted Construction of Holey Defective g-C N Photocatalysts for Efficient Visible-Light-Driven H O Production. *Small*, **2018**, 14, 1703142	11	231
610	Surface-Plasmon-Enhanced Photodriven CO2 Reduction Catalyzed by Metal-Organic-Framework-Derived Iron Nanoparticles Encapsulated by Ultrathin Carbon Layers. *Advanced Materials*, **2016**, 28, 3703-10	24	227
609	Fe3O4/WO3 hierarchical core-shell structure: high-performance and recyclable visible-light photocatalysis. *Chemistry - A European Journal*, **2011**, 17, 5145-54	4.8	224
608	Transition Metal Disulfides as Noble-Metal-Alternative Co-Catalysts for Solar Hydrogen Production. *Advanced Energy Materials*, **2016**, 6, 1502555	21.8	223
607	Anatase TiO2 Single Crystals Exposed with High-Reactive {111} Facets Toward Efficient H2 Evolution. *Chemistry of Materials*, **2013**, 25, 405-411	9.6	222
606	Nature-Inspired Environmental "Phosphorylation" Boosts Photocatalytic H2 Production over Carbon Nitride Nanosheets under Visible-Light Irradiation. *Angewandte Chemie - International Edition*, **2015**, 54, 13561-5	16.4	222
605	Gold-nanorod-photosensitized titanium dioxide with wide-range visible-light harvesting based on localized surface plasmon resonance. *Angewandte Chemie - International Edition*, **2013**, 52, 6689-93	16.4	219
604	A surface modification resultant thermally oxidized porous g-C3N4 with enhanced photocatalytic hydrogen production. *Applied Catalysis B: Environmental*, **2017**, 204, 335-345	21.8	217
603	Electronic structures of promising photocatalysts InMO4 (M=V, Nb, Ta) and BiVO4 for water decomposition in the visible wavelength region. *Journal of Chemical Physics*, **2002**, 117, 7313-7318	3.9	214
602	The Effects of Crystal Structure and Electronic Structure on Photocatalytic H2 Evolution and CO2 Reduction over Two Phases of Perovskite-Structured NaNbO3. *Journal of Physical Chemistry C*, **2012**, 116, 7621-7628	3.8	213
601	Self-doped SrTiO3 photocatalyst with enhanced activity for artificial photosynthesis under visible light. *Energy and Environmental Science*, **2011**, 4, 4211	35.4	211

600	Facet engineered Ag3PO4 for efficient water photooxidation. *Energy and Environmental Science*, **2013**, 6, 3380	35.4	208
599	A novel hydrogen-evolving photocatalyst InVO4 active under visible light irradiation. *Chemical Physics Letters*, **2002**, 356, 221-226	2.5	203
598	In situ oxidation synthesis of Ag/AgCl core-shell nanowires and their photocatalytic properties. *Chemical Communications*, **2009**, 6551-3	5.8	198
597	Drastic Layer-Number-Dependent Activity Enhancement in Photocatalytic H2 Evolution over nMoS2/CdS (n ≥ 1) Under Visible Light. *Advanced Energy Materials*, **2015**, 5, 1402279	21.8	197
596	Engineering coordination polymers for photocatalysis. *Nano Energy*, **2016**, 22, 149-168	17.1	197
595	Hematite Films Decorated with Nanostructured Ferric Oxyhydroxide as Photoanodes for Efficient and Stable Photoelectrochemical Water Splitting. *Advanced Functional Materials*, **2015**, 25, 2686-2692	15.6	193
594	In situ surface alkalinized g-C3N4 toward enhancement of photocatalytic H2 evolution under visible-light irradiation. *Journal of Materials Chemistry A*, **2016**, 4, 2943-2950	13	191
593	Photocatalytic reduction of carbon dioxide by hydrous hydrazine over Au-Cu alloy nanoparticles supported on SrTiO3/TiO2 coaxial nanotube arrays. *Angewandte Chemie - International Edition*, **2015**, 54, 841-5	16.4	188
592	Anisotropy of superconductivity from MgB2 single crystals. *Applied Physics Letters*, **2001**, 79, 2779-2781	3.4	186
591	Integrating the g-CN Nanosheet with B-H Bonding Decorated Metal-Organic Framework for CO Activation and Photoreduction. *ACS Nano*, **2018**, 12, 5333-5340	16.7	186
590	High-active anatase TiO nanosheets exposed with 95% {100} facets toward efficient H evolution and CO photoreduction. *ACS Applied Materials & Interfaces*, **2013**, 5, 1348-54	9.5	184
589	Nitrogen-doped Lamellar Niobic Acid with Visible Light-responsive Photocatalytic Activity. *Advanced Materials*, **2008**, 20, 3816-3819	24	184
588	Structural properties of InNbO4 and InTaO4: correlation with photocatalytic and photophysical properties. *Chemical Physics Letters*, **2000**, 332, 271-277	2.5	183
587	Drastic Enhancement of Photocatalytic Activities over Phosphoric Acid Protonated Porous g-C3 N4 Nanosheets under Visible Light. *Small*, **2016**, 12, 4431-9	11	182
586	Effects of molybdenum substitution on the photocatalytic behavior of BiVO4. *Dalton Transactions*, **2008**, 1426-30	4.3	182
585	Ultrathin SnO2 nanorods: template- and surfactant-free solution phase synthesis, growth mechanism, optical, gas-sensing, and surface adsorption properties. *Inorganic Chemistry*, **2010**, 49, 2302-9	5.1	178
584	Correlating long-lived photogenerated hole populations with photocurrent densities in hematite water oxidation photoanodes. *Energy and Environmental Science*, **2012**, 5, 6304-6312	35.4	171
583	Photocatalytic Degradation of Rhodamine B over Pb3Nb4O13/Fumed SiO2Composite under Visible Light Irradiation. *Journal of Physical Chemistry C*, **2007**, 111, 13109-13116	3.8	171

582	Theoretical study of high photocatalytic performance of Ag3PO4. *Physical Review B*, **2011**, 83,	3.3	170
581	Selective growth of Ag3PO4 submicro-cubes on Ag nanowires to fabricate necklace-like heterostructures for photocatalytic applications. *Journal of Materials Chemistry*, **2012**, 22, 14847		163
580	Decomposition of Organic Compounds over NaBiO3 under Visible Light Irradiation. *Chemistry of Materials*, **2007**, 19, 198-202	9.6	163
579	Structural, photocatalytic, and photophysical properties of perovskite MSnO3 (M = Ca, Sr, and Ba) photocatalysts. *Journal of Materials Research*, **2007**, 22, 1859-1871	2.5	157
578	Quantitative structure analyses of YBa2Cu3O7- delta thin films: Determination of oxygen content from x-ray-diffraction patterns. *Physical Review B*, **1993**, 48, 7554-7564	3.3	157
577	Photocatalytic degradation of methylene blue on CaIn2O4 under visible light irradiation. *Chemical Physics Letters*, **2003**, 382, 175-179	2.5	156
576	Coupling of Solar Energy and Thermal Energy for Carbon Dioxide Reduction: Status and Prospects. *Angewandte Chemie - International Edition*, **2020**, 59, 8016-8035	16.4	156
575	Superior Photocatalytic H Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. *Advanced Materials*, **2017**, 29, 1703258	24	155
574	Enhanced activity of mesoporous Nb2O5 for photocatalytic hydrogen production. *Applied Surface Science*, **2007**, 253, 8500-8506	6.7	155
573	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO2 reduction under visible light. *Applied Catalysis B: Environmental*, **2017**, 200, 141-149	21.8	152
572	Engineering the Edges of MoS (WS) Crystals for Direct Exfoliation into Monolayers in Polar Micromolecular Solvents. *Journal of the American Chemical Society*, **2016**, 138, 14962-14969	16.4	151
571	Photoluminescence and photocatalytic properties of SrSnO3 perovskite. *Chemical Physics Letters*, **2006**, 418, 174-178	2.5	151
570	Synthesis and Photocatalytic Activities of NaNbO3 Rods Modified by In2O3 Nanoparticles. *Journal of Physical Chemistry C*, **2010**, 114, 6157-6162	3.8	147
569	Efficient Photocatalysis on BaBiO3 Driven by Visible Light. *Journal of Physical Chemistry C*, **2007**, 111, 12779-12785	3.8	145
568	{Ta12}/{Ta16} cluster-containing polytantalotungstates with remarkable photocatalytic H2 evolution activity. *Journal of the American Chemical Society*, **2012**, 134, 19716-21	16.4	144
567	Boosting the Photocatalytic Activity of P25 for Carbon Dioxide Reduction by using a Surface-Alkalinized Titanium Carbide MXene as Cocatalyst. *ChemSusChem*, **2018**, 11, 1606-1611	8.3	142
566	Correlation of Crystal Structures, Electronic Structures, and Photocatalytic Properties in a Series of Ag-based Oxides: AgAlO2, AgCrO2, and Ag2CrO4. *Journal of Physical Chemistry C*, **2008**, 112, 3134-3141	3.8	141
565	Photocatalytic Properties and Photoinduced Hydrophilicity of Surface-Fluorinated TiO2. *Chemistry of Materials*, **2007**, 19, 116-122	9.6	141

564	Leaf-architectured 3D hierarchical artificial photosynthetic system of perovskite titanates towards CO□photoreduction into hydrocarbon fuels. *Scientific Reports*, **2013**, 3, 1667	4.9	137
563	Photocatalytic Water Splitting with the Cr-Doped Ba2In2O5/In2O3Composite Oxide Semiconductors. *Chemistry of Materials*, **2005**, 17, 3255-3261	9.6	137
562	Nitrogen Fixation Reaction Derived from Nanostructured Catalytic Materials. *Advanced Functional Materials*, **2018**, 28, 1803309	15.6	137
561	Photocatalytic CO2 conversion over alkali modified TiO2 without loading noble metal cocatalyst. *Chemical Communications*, **2014**, 50, 11517-9	5.8	136
560	The structural, physical and photocatalytic properties of the mesoporous Cr-doped TiO2. *Journal of Molecular Catalysis A*, **2008**, 284, 155-160		136
559	Photocatalytic water splitting under visible light by mixed-valence Sn(3)O(4). *ACS Applied Materials & Interfaces*, **2014**, 6, 3790-3	9.5	135
558	Targeting Activation of CO2 and H2 over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO2 Methanation in Flow-Type System. *Advanced Energy Materials*, **2017**, 7, 1601657	21.8	134
557	Polymeric Carbon Nitrides: Semiconducting Properties and Emerging Applications in Photocatalysis and Photoelectrochemical Energy Conversion. *Science of Advanced Materials*, **2012**, 4, 282-291	2.3	130
556	Synthesis of Fe-doped WO3 nanostructures with high visible-light-driven photocatalytic activities. *Applied Catalysis B: Environmental*, **2015**, 166-167, 112-120	21.8	129
555	Conversion of Carbon Dioxide by Methane Reforming under Visible-Light Irradiation: Surface-Plasmon-Mediated Nonpolar Molecule Activation. *Angewandte Chemie - International Edition*, **2015**, 54, 11545-9	16.4	129
554	In situ synthesis of ordered mesoporous Co-doped TiO2 and its enhanced photocatalytic activity and selectivity for the reduction of CO2. *Journal of Materials Chemistry A*, **2015**, 3, 9491-9501	13	128
553	Wafer-Level Artificial Photosynthesis for CO2 Reduction into CH4 and CO Using GaN Nanowires. *ACS Catalysis*, **2015**, 5, 5342-5348	13.1	127
552	Concave trisoctahedral Ag3PO4 microcrystals with high-index facets and enhanced photocatalytic properties. *Chemical Communications*, **2013**, 49, 636-8	5.8	127
551	A Systematical Study on Photocatalytic Properties of AgMO2 (M = Al, Ga, In): Effects of Chemical Compositions, Crystal Structures, and Electronic Structures. *Journal of Physical Chemistry C*, **2009**, 113, 1560-1566	3.8	127
550	Co-ZIF-9/TiO2 nanostructure for superior CO2 photoreduction activity. *Journal of Materials Chemistry A*, **2016**, 4, 15126-15133	13	125
549	Correlation of crystal and electronic structures with photophysical properties of water splitting photocatalysts InMO4 (M=V5+,Nb5+,Ta5+). *Journal of Photochemistry and Photobiology A: Chemistry*, **2002**, 148, 79-83	4.7	125
548	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal□Organic Framework. *Angewandte Chemie*, **2016**, 128, 14522-14526	3.6	124
547	High-aspect-ratio single-crystalline porous In2O3 nanobelts with enhanced gas sensing properties. *Journal of Materials Chemistry*, **2011**, 21, 12852		124

546	Photophysical and Photocatalytic Properties of a New Series of Visible-Light-Driven Photocatalysts M3V2O8 (M = Mg, Ni, Zn). *Chemistry of Materials*, **2005**, 17, 5177-5182	9.6	121
545	Physicochemical Mechanism for the Continuous Reaction of Al2O3-Modified Aluminum Powder with Water. *Journal of the American Ceramic Society*, **2007**, 90, 1521-1526	3.8	118
544	Light-Enhanced Carbon Dioxide Activation and Conversion by Effective Plasmonic Coupling Effect of Pt and Au Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 408-416	9.5	118
543	Correlation of crystal structures and electronic structures and photocatalytic properties of the W-containing oxides. *Journal of Materials Chemistry*, **2005**, 15, 4246		117
542	A new heterojunction Ag3PO4/Cr-SrTiO3 photocatalyst towards efficient elimination of gaseous organic pollutants under visible light irradiation. *Applied Catalysis B: Environmental*, **2013**, 134-135, 286-292	21.8	116
541	Photocatalytic activities of AgSbO3 under visible light irradiation. *Catalysis Today*, **2008**, 131, 197-202	5.3	113
540	Synthesis and photocatalytic properties of metastable Bi2O3 stabilized by surface-coordination effects. *Journal of Materials Chemistry A*, **2015**, 3, 5119-5125	13	111
539	Ion-exchange synthesis of a micro/mesoporous Zn2GeO4 photocatalyst at room temperature for photoreduction of CO2. *Chemical Communications*, **2011**, 47, 2041-3	5.8	111
538	Photoreduction of CO 2 over the well-crystallized ordered mesoporous TiO 2 with the confined space effect. *Nano Energy*, **2014**, 9, 50-60	17.1	110
537	SrSnO3Nanostructures:Synthesis, Characterization, and Photocatalytic Properties. *Chemistry of Materials*, **2007**, 19, 4585-4591	9.6	109
536	Photocatalytic and photophysical properties of visible-light-driven photocatalyst ZnBi12O20. *Chemical Physics Letters*, **2005**, 410, 104-107	2.5	109
535	Solar-Energy-Mediated Methane Conversion. *Joule*, **2019**, 3, 1606-1636	27.8	108
534	Efficient hydrogen evolution over Sb doped SnO2 photocatalyst sensitized by Eosin Y under visible light irradiation. *Nano Energy*, **2017**, 36, 331-340	17.1	106
533	Preparation of ZnFe2O4 nanostructures and highly efficient visible-light-driven hydrogen generation with the assistance of nanoheterostructures. *Journal of Materials Chemistry A*, **2015**, 3, 8353-8360	13	106
532	Effect of different modification agents on hydrogen-generation by the reaction of Al with water. *International Journal of Hydrogen Energy*, **2010**, 35, 9561-9568	6.7	105
531	Synergistic Activity of Co and Fe in Amorphous Cox-Fe-B Catalyst for Efficient Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 40333-40343	9.5	104
530	Facile Synthesis of Single-Crystalline Ag2V4O11 Nanotube Material as a Novel Visible-Light-Sensitive Photocatalyst. *Journal of Physical Chemistry C*, **2011**, 115, 145-151	3.8	104
529	A Novel Series of the New Visible-Light-Driven Photocatalysts MCo1/3Nb2/3O3 (M = Ca, Sr, and Ba) with Special Electronic Structures. *Journal of Physical Chemistry B*, **2003**, 107, 4936-4941	3.4	104

528	Metal nanoparticles induced photocatalysis. *National Science Review*, **2017**, 4, 761-780	10.8	103
527	Facile synthesis of tetrahedral Ag3PO4 submicro-crystals with enhanced photocatalytic properties. *Journal of Materials Chemistry A*, **2013**, 1, 2387	13	103
526	Biopolymer-activated graphitic carbon nitride towards a sustainable photocathode material. *Scientific Reports*, **2013**, 3, 2163	4.9	103
525	Photoinduced Defect Engineering: Enhanced Photothermal Catalytic Performance of 2D Black In O Nanosheets with Bifunctional Oxygen Vacancies. *Advanced Materials*, **2020**, 32, e1903915	24	103
524	In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dual-Purpose Strategy for Efficient Molecular Oxygen Activation. *Advanced Functional Materials*, **2017**, 27, 1703923	15.6	101
523	New Series of Solid-Solution Semiconductors (AgNbO3)1□(SrTiO3)x with Modulated Band Structure and Enhanced Visible-Light Photocatalytic Activity. *Journal of Physical Chemistry C*, **2009**, 113, 3785-3792	3.8	101
522	Photocatalytic reduction of CO2 over Ag/TiO2 nanocomposites prepared with a simple and rapid silver mirror method. *Nanoscale*, **2016**, 8, 11870-4	7.7	101
521	Oxygen vacancies induced special CO2 adsorption modes on Bi2MoO6 for highly selective conversion to CH4. *Applied Catalysis B: Environmental*, **2019**, 259, 118088	21.8	100
520	Photoreduction of Carbon Dioxide Over NaNbO3 Nanostructured Photocatalysts. *Catalysis Letters*, **2011**, 141, 525-530	2.8	100
519	Selective light absorber-assisted single nickel atom catalysts for ambient sunlight-driven CO methanation. *Nature Communications*, **2019**, 10, 2359	17.4	99
518	Direct and Selective Photocatalytic Oxidation of CH to Oxygenates with O on Cocatalysts/ZnO at Room Temperature in Water. *Journal of the American Chemical Society*, **2019**, 141, 20507-20515	16.4	99
517	Visible-light-driven photocatalytic and photoelectrochemical properties of porous SnSx(x = 1,2) architectures. *CrystEngComm*, **2012**, 14, 3163	3.3	98
516	Ag3PO4/In(OH)3 Composite Photocatalysts with Adjustable Surface-Electric Property for Efficient Photodegradation of Organic Dyes under Simulated Solar-Light Irradiation. *Journal of Physical Chemistry C*, **2013**, 117, 17716-17724	3.8	98
515	Novel Ag2ZnGeO4 photocatalyst for dye degradation under visible light irradiation. *Applied Catalysis A: General*, **2008**, 334, 51-58	5.1	98
514	Photocatalytic water splitting into H2 and/or O2 under UV and visible light irradiation with a semiconductor photocatalyst. *International Journal of Hydrogen Energy*, **2003**, 28, 663-669	6.7	97
513	Design of PdAu alloy plasmonic nanoparticles for improved catalytic performance in CO2 reduction with visible light irradiation. *Nano Energy*, **2016**, 26, 398-404	17.1	96
512	Photophysical and photocatalytic properties of Ca(1-x)BixVxMo(1-x)O4 solid solutions. *Journal of Physical Chemistry B*, **2006**, 110, 11188-95	3.4	96
511	Band-structure-controlled BiO(ClBr)(1□)/2Ix solid solutions for visible-light photocatalysis. *Journal of Materials Chemistry A*, **2015**, 3, 8123-8132	13	95

510	Sb doped SnO2-decorated porous g-C3N4 nanosheet heterostructures with enhanced photocatalytic activities under visible light irradiation. *Applied Catalysis B: Environmental*, **2018**, 221, 670-680	21.8	95
509	Correlation between the band positions of (SrTiO3)1-x.(LaTiO2N)x solid solutions and photocatalytic properties under visible light irradiation. *Physical Chemistry Chemical Physics*, **2008**, 10, 6717-23	3.6	95
508	Mesoporous zinc germanium oxynitride for CO2 photoreduction under visible light. *Chemical Communications*, **2012**, 48, 1269-71	5.8	94
507	Mesoporous palladium–copper bimetallic electrodes for selective electrocatalytic reduction of aqueous CO2 to CO. *Journal of Materials Chemistry A*, **2016**, 4, 4776-4782	13	93
506	Effective Formation of Oxygen Vacancies in Black TiO2 Nanostructures with Efficient Solar-Driven Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 8982-8987	8.3	93
505	Photothermal Conversion of CO2 into CH4 with H2 over Group VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production. *Angewandte Chemie*, **2014**, 126, 11662-11666	3.6	92
504	Vertically aligned ZnO nanowire arrays tip-grafted with silver nanoparticles for photoelectrochemical applications. *Nanoscale*, **2013**, 5, 7552-7	7.7	92
503	Impact of ligand modification on hydrogen photogeneration and light-harvesting applications using cyclometalated iridium complexes. *Inorganic Chemistry*, **2012**, 51, 4123-33	5.1	92
502	Slow Photons for Photocatalysis and Photovoltaics. *Advanced Materials*, **2017**, 29, 1605349	24	91
501	A novel series of water splitting photocatalysts NiM2O6 (M=Nb,Ta) active under visible light. *International Journal of Hydrogen Energy*, **2003**, 28, 651-655	6.7	91
500	Gold photosensitized SrTiO3 for visible-light water oxidation induced by Au interband transitions. *Journal of Materials Chemistry A*, **2014**, 2, 9875	13	90
499	Selective growth of metallic Ag nanocrystals on Ag3PO4 submicro-cubes for photocatalytic applications. *Chemistry - A European Journal*, **2012**, 18, 14272-5	4.8	90
498	Highly active nonprecious metal hydrogen evolution electrocatalyst: ultrafine molybdenum carbide nanoparticles embedded into a 3D nitrogen-implanted carbon matrix. *NPG Asia Materials*, **2016**, 8, e293-e293	10.3	89
497	NaNbO3 Nanostructures: Facile Synthesis, Characterization, and Their Photocatalytic Properties. *Catalysis Letters*, **2009**, 132, 205-212	2.8	89
496	Superconductivity of ternary silicide with the AlB(2)-type structure Sr(Ga(0.37),Si(0.63))(2). *Physical Review Letters*, **2001**, 87, 077003	7.4	89
495	Salt-template-assisted construction of honeycomb-like structured g-C3N4 with tunable band structure for enhanced photocatalytic H2 production. *Applied Catalysis B: Environmental*, **2019**, 240, 64-71	21.8	89
494	Theoretical design of highly active SrTiO3-based photocatalysts by a codoping scheme towards solar energy utilization for hydrogen production. *Journal of Materials Chemistry A*, **2013**, 1, 4221	13	87
493	Two-dimensional dendritic Ag3PO4 nanostructures and their photocatalytic properties. *Physical Chemistry Chemical Physics*, **2012**, 14, 14486-8	3.6	87

492	Synthesis and enhanced photocatalytic activity of NaNbO3 prepared by hydrothermal and polymerized complex methods. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2487-2491	3.9	86
491	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. *ACS Applied Materials & Interfaces*, **2016**, 8, 10367-74	9.5	86
490	Selective-Synthesis of High-Performance Single-Crystalline Sr2Nb2O7 Nanoribbon and SrNb2O6 Nanorod Photocatalysts. *Chemistry of Materials*, **2009**, 21, 2327-2333	9.6	85
489	Composition dependence of the photophysical and photocatalytic properties of (AgNbO3)1−(NaNbO3)x solid solutions. *Journal of Solid State Chemistry*, **2007**, 180, 2845-2850	3.3	85
488	Intermolecular cascaded π-conjugation channels for electron delivery powering CO photoreduction. *Nature Communications*, **2020**, 11, 1149	17.4	83
487	Rational design of freestanding MoS2 monolayers for hydrogen evolution reaction. *Nano Energy*, **2017**, 39, 409-417	17.1	83
486	Biomimetic polymeric semiconductor based hybrid nanosystems for artificial photosynthesis towards solar fuels generation via CO2 reduction. *Nano Energy*, **2016**, 25, 128-135	17.1	83
485	Light assisted CO 2 reduction with methane over group VIII metals: Universality of metal localized surface plasmon resonance in reactant activation. *Applied Catalysis B: Environmental*, **2017**, 209, 183-189	21.8	81
484	Surface-coordination-induced selective synthesis of cubic and orthorhombic NaNbO3 and their photocatalytic properties. *Journal of Materials Chemistry A*, **2013**, 1, 1185-1191	13	81
483	Nature-Inspired Environmental "Phosphorylation" Boosts Photocatalytic H2 Production over Carbon Nitride Nanosheets under Visible-Light Irradiation. *Angewandte Chemie*, **2015**, 127, 13765-13769	3.6	81
482	Surface step decoration of isolated atom as electron pumping: Atomic-level insights into visible-light hydrogen evolution. *Nano Energy*, **2018**, 45, 109-117	17.1	80
481	Constructing cubic–orthorhombic surface-phase junctions of NaNbO3 towards significant enhancement of CO2 photoreduction. *Journal of Materials Chemistry A*, **2014**, 2, 5606-5609	13	80
480	Direct conversion of commercial silver foils into high aspect ratio AgBr nanowires with enhanced photocatalytic properties. *Chemistry - A European Journal*, **2010**, 16, 10327-31	4.8	79
479	Electronic structure and photocatalytic characterization of a novel photocatalyst AgAlO2. *Journal of Physical Chemistry B*, **2006**, 110, 11677-82	3.4	79
478	Porous-structured Cu2O/TiO2 nanojunction material toward efficient CO2 photoreduction. *Nanotechnology*, **2014**, 25, 165402	3.4	78
477	Site-selected doping of upconversion luminescent Er3+ into SrTiO3 for visible-light-driven photocatalytic H2 or O2 evolution. *Chemistry - A European Journal*, **2012**, 18, 7543-51	4.8	78
476	Visible-light-driven photoelectrochemical and photocatalytic performances of Cr-doped SrTiO3/TiO2 heterostructured nanotube arrays. *Scientific Reports*, **2013**, 3, 2720	4.9	78
475	Substitution Effects of In3+by Al3+and Ga3+on the Photocatalytic and Structural Properties of the Bi2InNbO7Photocatalyst. *Chemistry of Materials*, **2001**, 13, 1765-1769	9.6	78

474	A Co□□Embedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for CO□photoreduction. *Nanoscale*, **2016**, 8, 6712-20	7.7	77
473	Visible-Light-Mediated Methane Activation for Steam Methane Reforming under Mild Conditions: A Case Study of Rh/TiO2 Catalysts. *ACS Catalysis*, **2018**, 8, 7556-7565	13.1	77
472	Photophysical and Photocatalytic Properties of MIn0.5Nb0.5O3 (M = Ca, Sr, and Ba). *Journal of Physical Chemistry B*, **2003**, 107, 61-65	3.4	77
471	Photocatalytic H2 evolution under visible light irradiation on AgIn5S8 photocatalyst. *Journal of Physics and Chemistry of Solids*, **2007**, 68, 2317-2320	3.9	76
470	Implantation of Iron(III) in porphyrinic metal organic frameworks for highly improved photocatalytic performance. *Applied Catalysis B: Environmental*, **2018**, 224, 60-68	21.8	75
469	Plasmonic Janus-Composite Photocatalyst Comprising Au and C□□iO2 for Enhanced Aerobic Oxidation over a Broad Visible-Light Range. *Advanced Functional Materials*, **2014**, 24, 7754-7762	15.6	75
468	An ion-exchange route for the synthesis of hierarchical In2S3/ZnIn2S4 bulk composite and its photocatalytic activity under visible-light irradiation. *Dalton Transactions*, **2013**, 42, 2687-90	4.3	75
467	Photocatalytic and photophysical properties of a novel series of solid photocatalysts, BiTa1□Nb O4 (0?x?1). *Chemical Physics Letters*, **2001**, 343, 303-308	2.5	75
466	Carbon Nitride Polymers Sensitized with N-Doped Tantalic Acid for Visible Light-Induced Photocatalytic Hydrogen Evolution. *Journal of Physical Chemistry C*, **2010**, 114, 4100-4105	3.8	74
465	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. *Angewandte Chemie - International Edition*, **2017**, 56, 5570-5574	16.4	73
464	Size-Dependent Mie□ Scattering Effect on TiO2 Spheres for the Superior Photoactivity of H2 Evolution. *Journal of Physical Chemistry C*, **2012**, 116, 3833-3839	3.8	73
463	General synthesis of hybrid TiO2 mesoporous "french fries" toward improved photocatalytic conversion of CO2 into hydrocarbon fuel: a case of TiO2/ZnO. *Chemistry - A European Journal*, **2011**, 17, 9057-61	4.8	73
462	Modification of Al Particle Surfaces by □Al2O3 and Its Effect on the Corrosion Behavior of Al. *Journal of the American Ceramic Society*, **2005**, 88, 977-979	3.8	72
461	A comparison study of rhodamine B photodegradation over nitrogen-doped lamellar niobic acid and titanic acid under visible-light irradiation. *Chemistry - A European Journal*, **2009**, 15, 3538-45	4.8	71
460	Photo-assisted methanol synthesis via CO2 reduction under ambient pressure over plasmonic Cu/ZnO catalysts. *Applied Catalysis B: Environmental*, **2019**, 250, 10-16	21.8	71
459	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. *Nano Energy*, **2016**, 28, 158-163	17.1	70
458	Large impact of strontium substitution on photocatalytic water splitting activity of BaSnO3. *Applied Physics Letters*, **2007**, 91, 094107	3.4	70
457	Photophysical and photocatalytic properties of InMO4 (M = Nb5+, Ta5+) under visible light irradiation. *Materials Research Bulletin*, **2001**, 36, 1185-1193	5.1	70

456	A highly durable p-LaFeO3/n-Fe2O3 photocell for effective water splitting under visible light. *Chemical Communications*, **2015**, 51, 3630-3	5.8	69
455	A full compositional range for a (Ga1-x Zn x)(N1-x O x) nanostructure: high efficiency for overall water splitting and optical properties. *Small*, **2015**, 11, 871-6	11	69
454	Toward visible-light-assisted photocatalytic nitrogen fixation: A titanium metal organic framework with functionalized ligands. *Applied Catalysis B: Environmental*, **2020**, 267, 118686	21.8	69
453	Selective Activation of Benzyl Alcohol Coupled with Photoelectrochemical Water Oxidation via a Radical Relay Strategy. *ACS Catalysis*, **2020**, 10, 4906-4913	13.1	68
452	Mechanism of photocatalytic activities in Cr-doped SrTiO3 under visible-light irradiation: an insight from hybrid density-functional calculations. *Physical Chemistry Chemical Physics*, **2012**, 14, 1876-80	3.6	68
451	Photocatalytic hydrogen and oxygen formation under visible light irradiation with M-doped InTaO4 (M=Mn, Fe, Co, Ni and Cu) photocatalysts. *Journal of Photochemistry and Photobiology A: Chemistry*, **2002**, 148, 65-69	4.7	68
450	Highly efficient and stable photocatalytic reduction of CO2 to CH4 over Ru loaded NaTaO3. *Chemical Communications*, **2015**, 51, 7645-8	5.8	67
449	Fabrication of p-type CaFe2O4 nanofilms for photoelectrochemical hydrogen generation. *Electrochemistry Communications*, **2011**, 13, 275-278	5.1	67
448	Role of R in Bi2RNbO7 (R = Y, Rare Earth): Effect on Band Structure and Photocatalytic Properties. *Journal of Physical Chemistry B*, **2002**, 106, 517-520	3.4	67
447	Photophysical and photocatalytic properties of new photocatalysts MCrO4 (M=Sr, Ba). *Chemical Physics Letters*, **2003**, 378, 24-28	2.5	65
446	Photoelectrochemical properties of nanomultiple CaFe2O4/ZnFe2O4 pn junction photoelectrodes. *Langmuir*, **2013**, 29, 3116-24	4	64
445	2-Propanol photodegradation over nitrogen-doped NaNbO3 powders under visible-light irradiation. *Journal of Physics and Chemistry of Solids*, **2009**, 70, 931-935	3.9	64
444	Ultrathin FeOOH nanosheets as an efficient cocatalyst for photocatalytic water oxidation. *Journal of Materials Chemistry A*, **2019**, 7, 9222-9229	13	63
443	Conformal BiVO-Layer/WO-Nanoplate-Array Heterojunction Photoanode Modified with Cobalt Phosphate Cocatalyst for Significantly Enhanced Photoelectrochemical Performances. *ACS Applied Materials & Interfaces*, **2019**, 11, 5623-5631	9.5	63
442	Synergistic effect of Au and Rh on SrTiO3 in significantly promoting visible-light-driven syngas production from CO2 and H2O. *Chemical Communications*, **2016**, 52, 5989-92	5.8	63
441	Photocatalytic Reduction of Carbon Dioxide by Hydrous Hydrazine over Au□Cu Alloy Nanoparticles Supported on SrTiO3/TiO2 Coaxial Nanotube Arrays. *Angewandte Chemie*, **2015**, 127, 855-859	3.6	61
440	Band gap tuning of Na1⊠LaxTa1⊠CoxO3 solid solutions for visible light photocatalysis. *Applied Physics Letters*, **2007**, 91, 254108	3.4	61
439	Enhanced photocurrent□oltage characteristics of WO3/Fe2O3 nano-electrodes. *Journal Physics D: Applied Physics*, **2007**, 40, 1091-1096	3	61

438	A new spinel-type photocatalyst BaCr2O4 for H2 evolution under UV and visible light irradiation. *Chemical Physics Letters*, **2003**, 373, 191-196	2.5	61
437	Substitution effects of In3+ by Fe3+ on photocatalytic and structural properties of Bi2InNbO7 photocatalysts. *Journal of Molecular Catalysis A*, **2001**, 168, 289-297		61
436	Engineering the crystallinity of MoS2 monolayers for highly efficient solar hydrogen production. *Journal of Materials Chemistry A*, **2017**, 5, 8591-8598	13	60
435	Synergetic Exfoliation and Lateral Size Engineering of MoS for Enhanced Photocatalytic Hydrogen Generation. *Small*, **2018**, 14, e1704153	11	60
434	Photo-directed growth of Au nanowires on ZnO arrays for enhancing photoelectrochemical performances. *Journal of Materials Chemistry A*, **2014**, 2, 15553-15559	13	60
433	Facile and rapid oxidation fabrication of BiOCl hierarchical nanostructures with enhanced photocatalytic properties. *Chemistry - A European Journal*, **2013**, 19, 9472-5	4.8	59
432	Gold-Nanorod-Photosensitized Titanium Dioxide with Wide-Range Visible-Light Harvesting Based on Localized Surface Plasmon Resonance. *Angewandte Chemie*, **2013**, 125, 6821-6825	3.6	59
431	Adsorption and photodegradation properties of anionic dyes by layered double hydroxides. *Journal of Physics and Chemistry of Solids*, **2011**, 72, 1037-1045	3.9	58
430	Efficient Photocatalytic Decomposition of Organic Contaminants over CaBi2O4 under Visible-Light Irradiation. *Angewandte Chemie*, **2004**, 116, 4563-4566	3.6	58
429	Efficient photocatalytic CO2 reduction in all-inorganic aqueous environment: Cooperation between reaction medium and Cd(II) modified colloidal ZnS. *Nano Energy*, **2017**, 34, 524-532	17.1	57
428	Efficient photocatalytic CO2 reduction over Co(II) species modified CdS in aqueous solution. *Applied Catalysis B: Environmental*, **2018**, 226, 252-257	21.8	57
427	Surface Characterization of Nanoparticles of NiOx/In0.9Ni0.1TaO4: Effects on Photocatalytic Activity. *Journal of Physical Chemistry B*, **2002**, 106, 13098-13101	3.4	57
426	Two types of cooperative nitrogen vacancies in polymeric carbon nitride for efficient solar-driven H2O2 evolution. *Applied Catalysis B: Environmental*, **2020**, 265, 118581	21.8	56
425	Growth and anisotropic resistivity of PrBa2Cu4O8 and Pr2Ba4Cu7O15−δ single crystals: A direct probe of metallic Cu-O double chains. *Physical Review B*, **2000**, 61, 6327-6333	3.3	55
424	W18O49 nanowire networks for catalyzed dehydration of isopropyl alcohol to propylene under visible light. *Journal of Materials Chemistry A*, **2013**, 1, 6125	13	54
423	Synthesis and visible light photocatalytic property of polyhedron-shaped AgNbO3. *Dalton Transactions*, **2009**, 8519-24	4.3	54
422	Photocatalytic and photophysical properties of a novel series of solid photocatalysts, Bi2MNbO7 (M=Al3+,Ga3+ and In3+). *Chemical Physics Letters*, **2001**, 333, 57-62	2.5	54
421	Cation Vacancy-Initiated CO2 Photoreduction over ZnS for Efficient Formate Production. *ACS Energy Letters*, **2019**, 4, 1387-1393	20.1	53

420	Photocatalytic degradation of MB on MIn2O4 (M=alkali earth metal) under visible light: effects of crystal and electronic structure on the photocatalytic activity. *Catalysis Today*, **2004**, 93-95, 885-889	5.3	53
419	Enhancing photocatalytic activity for visible-light-driven H 2 generation with the surface reconstructed LaTiO 2 N nanostructures. *Nano Energy*, **2015**, 12, 775-784	17.1	52
418	Artificial photosynthesis on tree trunk derived alkaline tantalates with hierarchical anatomy: towards CO2 photo-fixation into CO and CH4. *Nanoscale*, **2015**, 7, 113-20	7.7	52
417	Determination of Crystal Structure of Graphitic Carbon Nitride: Ab Initio Evolutionary Search and Experimental Validation. *Chemistry of Materials*, **2017**, 29, 2694-2707	9.6	51
416	An ultrathin porphyrin-based metal-organic framework for efficient photocatalytic hydrogen evolution under visible light. *Nano Energy*, **2019**, 62, 250-258	17.1	51
415	Heteroepitaxial growth of platinum nanocrystals on AgCl nanotubes via galvanic replacement reaction. *Chemical Communications*, **2010**, 46, 1532-4	5.8	51
414	Forced Impregnation Approach to Fabrication of Large-Area, Three-Dimensionally Ordered Macroporous Metal Oxides. *Chemistry of Materials*, **2010**, 22, 3583-3585	9.6	51
413	Facile ion-exchanged synthesis of Sn2+ incorporated potassium titanate nanoribbons and their visible-light-responded photocatalytic activity. *International Journal of Hydrogen Energy*, **2011**, 36, 4716-4723	6.7	51
412	Mesoporous In(OH)3 for photoreduction of CO2 into renewable hydrocarbon fuels. *Applied Surface Science*, **2013**, 280, 418-423	6.7	50
411	Enhancement of photoelectric conversion properties of SrTiO3/□Fe2O3heterojunction photoanode. *Journal Physics D: Applied Physics*, **2007**, 40, 3925-3930	3	50
410	Photo-enhanced lithium oxygen batteries with defective titanium oxide as both photo-anode and air electrode. *Energy Storage Materials*, **2018**, 13, 49-56	19.4	49
409	Electronic coupling assembly of semiconductor nanocrystals: self-narrowed band gap to promise solar energy utilization. *Energy and Environmental Science*, **2011**, 4, 1684	35.4	49
408	Light assisted CO2 reduction with methane over SiO2 encapsulated Ni nanocatalysts for boosted activity and stability. *Journal of Materials Chemistry A*, **2017**, 5, 10567-10573	13	48
407	Highly efficient hydrogen production from alkaline aldehyde solutions facilitated by palladium nanotubes. *Nano Energy*, **2014**, 8, 103-109	17.1	48
406	Photocatalytic properties of a new photocatalyst K2Sr1.5Ta3O10. *Chemical Physics Letters*, **2007**, 435, 96-99	2.5	48
405	Solar-Driven Water-Gas Shift Reaction over CuO /Al O with 1.1 % of Light-to-Energy Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 7708-7712	16.4	47
404	Single-crystal nanosheet-based hierarchical AgSbO3 with exposed {001} facets: topotactic synthesis and enhanced photocatalytic activity. *Chemistry - A European Journal*, **2012**, 18, 3157-62	4.8	47
403	Ultrathin W18O49 Nanowires with Diameters below 1 nm: Synthesis, Near-Infrared Absorption, Photoluminescence, and Photochemical Reduction of Carbon Dioxide. *Angewandte Chemie*, **2012**, 124, 2445-2449	3.6	47

402	Band structure design and photocatalytic activity of In2O3/NiInNbO4 composite. *Applied Physics Letters*, **2009**, 95, 032107	3.4	47
401	Surface modification and photocatalytic activity of distorted pyrochlore-type Bi2M(M=In, Ga and Fe)TaO7 photocatalysts. *Journal of Physics and Chemistry of Solids*, **2005**, 66, 349-355	3.9	47
400	Crystal-facet-dependent hot-electron transfer in plasmonic-Au/semiconductor heterostructures for efficient solar photocatalysis. *Journal of Materials Chemistry C*, **2015**, 3, 7538-7542	7.1	46
399	Constructing electron delocalization channels in covalent organic frameworks powering CO2 photoreduction in water. *Applied Catalysis B: Environmental*, **2020**, 274, 119096	21.8	46
398	High performance Au-Cu alloy for enhanced visible-light water splitting driven by coinage metals. *Chemical Communications*, **2016**, 52, 4694-7	5.8	46
397	Integration of adsorption and photosensitivity capabilities into a cationic multivariate metal-organic framework for enhanced visible-light photoreduction reaction. *Applied Catalysis B: Environmental*, **2019**, 253, 323-330	21.8	45
396	Photocatalytic reactivity of {121} and {211} facets of brookite TiO2 crystals. *Journal of Materials Chemistry A*, **2015**, 3, 2331-2337	13	45
395	Ultra-small freestanding amorphous molybdenum sulfide colloidal nanodots for highly efficient photocatalytic hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2018**, 232, 446-453	21.8	45
394	Hierarchical nanowire arrays based on carbon nanotubes and Co3O4 decorated ZnO for enhanced photoelectrochemical water oxidation. *Journal of Materials Chemistry A*, **2015**, 3, 13731-13737	13	45
393	Bifunctional-nanotemplate assisted synthesis of nanoporous SrTiO3 photocatalysts toward efficient degradation of organic pollutant. *ACS Applied Materials & Interfaces*, **2014**, 6, 22726-32	9.5	45
392	Role of complex defects in photocatalytic activities of nitrogen-doped anatase TiO(2). *Physical Chemistry Chemical Physics*, **2012**, 14, 5924-34	3.6	45
391	Phase-controlled synthesis of 3D flower-like Ni(OH)2 architectures and their applications in water treatment. *CrystEngComm*, **2012**, 14, 3063	3.3	45
390	Degradation in photocatalytic activity induced by hydrogen-related defects in nano-LiNbO3 material. *Applied Physics Letters*, **2006**, 88, 071917	3.4	45
389	Unusually large Tc enhancement in superconducting PrBa2Cu3Ox under pressure. *Physical Review B* , **1998**, 58, R619-R622	3.3	45
388	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO2 Photothermal Reduction: A Case of Atomic-Scale Dispersed CoN Species Anchored Hybrid. *ACS Catalysis*, **2020**, 10, 4726-4736	13.1	44
387	An Ag3PO4/nitridized Sr2Nb2O7 composite photocatalyst with adjustable band structures for efficient elimination of gaseous organic pollutants under visible light irradiation. *Nanoscale*, **2014**, 6, 7303-11	7.7	44
386	Enhanced photocatalytic activity of Ag/Ag3PO4 coaxial hetero-nanowires. *Journal of Materials Chemistry A*, **2013**, 1, 10612	13	42
385	BiAg alloy nanospheres: a new photocatalyst for H2 evolution from water splitting. *ACS Applied Materials & Interfaces*, **2014**, 6, 19488-93	9.5	42

384	A p-type Cr-doped TiO2 photo-electrode for photo-reduction. *Chemical Communications*, **2013**, 49, 3440-3	3.8	42
383	Systematic study of the growth-temperature dependence of structural disorder and superconductivity in YBa2Cu3O7- delta thin films. *Physical Review B*, **1994**, 50, 7099-7106	3.3	42
382	Enhanced Photocatalytic Oxidation of Isopropanol by Core-Shell Structure with Ultrathin Anatase Porous Shell: Toxic Intermediate Control. *Industrial & Engineering Chemistry Research*, **2016**, 55, 8096-8103	3.9	42
381	A rapidly room-temperature-synthesized Cd/ZnS:Cu nanocrystal photocatalyst for highly efficient solar-light-powered CO2 reduction. *Applied Catalysis B: Environmental*, **2018**, 237, 68-73	21.8	42
380	Growth of shape- and size-selective zinc oxide nanorods by a microwave-assisted chemical bath deposition method: effect on photocatalysis properties. *Chemistry - A European Journal*, **2010**, 16, 10569-75	4.8	41
379	Optical and structural properties of the BiTa1-xNbxO4 (0?x?1) compounds. *Solid State Communications*, **2001**, 119, 471-475	1.6	41
378	Improved Photocatalytic H Evolution over G-Carbon Nitride with Enhanced In-Plane Ordering. *Small* , **2016**, 12, 6160-6166	11	41
377	Beyond CN-conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. *Chemical Society Reviews*, **2021**, 50, 2147-2172	58.5	41
376	Three-Dimensional Lupinus-like TiO Nanorod@SnO Nanosheet Hierarchical Heterostructured Arrays as Photoanode for Enhanced Photoelectrochemical Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 38537-38544	9.5	40
375	Efficient organic degradation under visible light by Bi2O3 with a CuO -assistant electron transfer process. *Applied Catalysis B: Environmental*, **2015**, 163, 267-276	21.8	40
374	Visible light photoactivity from a bonding assembly of titanium oxide nanocrystals. *Chemical Communications*, **2011**, 47, 4219-21	5.8	39
373	Hydrogen Production and Characterization of MLaSrNb2NiO9 (M = Na, Cs, H) Based Photocatalysts *Chemistry of Materials*, **2010**, 22, 1107-1113	9.6	39
372	2-Propanol photodegradation over lead niobates under visible light irradiation. *Applied Catalysis A: General*, **2007**, 326, 1-7	5.1	39
371	Visible light sensitive photocatalysts In1-xMxTaO4 (M=3d transition-metal) and their activity controlling factors. *Journal of Physics and Chemistry of Solids*, **2005**, 66, 266-273	3.9	39
370	Electric field-directed growth and photoelectrochemical properties of cross-linked Au-ZnO hetero-nanowire arrays. *Chemical Communications*, **2015**, 51, 2103-6	5.8	38
369	Hydrothermal Synthesis and Structures of Na3In2(PO4)3and Na3In2(AsO4)3: Synthetic Modifications of the Mineral Alluaudite. *Journal of Solid State Chemistry*, **1997**, 131, 131-137	3.3	38
368	Photophysical and Photocatalytic Activities of a Novel Photocatalyst BaZn1/3Nb2/3O3. *Journal of Physical Chemistry B*, **2004**, 108, 12790-12794	3.4	38
367	Co and Fe Codoped WO as Alkaline-Solution-Available Oxygen Evolution Reaction Catalyst to Construct Photovoltaic Water Splitting System with Solar-To-Hydrogen Efficiency of 16.9. *Advanced Science*, **2019**, 6, 1900465	13.6	37

366	Inhomogeneous RVO4 Photocatalyst Systems (R = Y, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu). *Journal of Physical Chemistry C*, **2014**, 118, 8331-8341	3.8	37
365	Possible Role of Lattice Dynamics in the Photocatalytic Activity of BaM1/3N2/3O3 (M = Ni, Zn; N = Nb, Ta). *Journal of Physical Chemistry B*, **2004**, 108, 8888-8893	3.4	37
364	Recent advances of low-dimensional phosphorus-based nanomaterials for solar-driven photocatalytic reactions. *Coordination Chemistry Reviews*, **2020**, 424, 213516	23.2	37
363	Facile Top-Down Strategy for Direct Metal Atomization and Coordination Achieving a High Turnover Number in CO Photoreduction. *Journal of the American Chemical Society*, **2020**, 142, 19259-19267	16.4	37
362	Titanium-Based MOF Materials: From Crystal Engineering to Photocatalysis. *Small Methods*, **2020**, 4, 2000486	12.8	37
361	A Promising Application of Optical Hexagonal TaN in Photocatalytic Reactions. *Angewandte Chemie - International Edition*, **2018**, 57, 16781-16784	16.4	37
360	Designing Au Surface-Modified Nanoporous-Single-Crystalline SrTiO3 to Optimize Diffusion of Surface Plasmon Resonance-Induce Photoelectron toward Enhanced Visible-Light Photoactivity. *ACS Applied Materials & Interfaces*, **2016**, 8, 9506-13	9.5	36
359	Selective local nitrogen doping in a TiO2 electrode for enhancing photoelectrochemical water splitting. *Chemical Communications*, **2012**, 48, 8649-51	5.8	36
358	Hydrothermal synthesis of Na(0.5)La(0.5)TiO3-LaCrO3 solid-solution single-crystal nanocubes for visible-light-driven photocatalytic H2 evolution. *Chemistry - A European Journal*, **2011**, 17, 7858-67	4.8	36
357	In situ construction of □Bi2O3/g-C3N4/▦Bi2O3 composites and their highly efficient photocatalytic performances. *RSC Advances*, **2015**, 5, 92963-92969	3.7	35
356	Strong adsorption and effective photocatalytic activities of one-dimensional nano-structured silver titanates. *Applied Catalysis A: General*, **2010**, 375, 85-91	5.1	35
355	BaCeO3 as a novel photocatalyst with 4f electronic configuration for water splitting. *Solid State Ionics*, **2008**, 178, 1711-1713	3.3	35
354	Optimizing Electron Densities of Ni-N-C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO Reduction. *ChemSusChem*, **2020**, 13, 929-937	8.3	35
353	Influence of processing parameters on laser penetration depth and melting/re-melting densification during selective laser melting of aluminum alloy. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	34
352	Bonding and Electron Energy-Level Alignment at Metal/TiO2 Interfaces: A Density Functional Theory Study. *Journal of Physical Chemistry C*, **2016**, 120, 5549-5556	3.8	34
351	Temperature Effect on Hydrogen Generation by the Reaction of □Al2O3-Modified Al Powder with Distilled Water. *Journal of the American Ceramic Society*, **2005**, 88, 2975-2977	3.8	34
350	Photocatalytic decomposition of water with Bi2InNbO7. *Catalysis Letters*, **2000**, 68, 235-239	2.8	34
349	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. *ACS Catalysis*, **2020**, 10, 14318-14326	13.1	34

348	Ultrafine nano 1T-MoS2 monolayers with NiOx as dual co-catalysts over TiO2 photoharvester for efficient photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2020**, 279, 119387	21.8	34
347	Fabricating a Au@TiO2Plasmonic System To Elucidate Alkali-Induced Enhancement of Photocatalytic H2Evolution: Surface Potential Shift or Methanol Oxidation Acceleration?. *ACS Catalysis*, **2018**, 8, 4266-4277	13.1	33
346	Bio-inspired Plasmonic Nanoarchitectured Hybrid System Towards Enhanced Far Red-to-Near Infrared Solar Photocatalysis. *Scientific Reports*, **2016**, 6, 20001	4.9	33
345	Simple Room-Temperature Mineralization Method to SrWO4 Micro/Nanostructures and Their Photocatalytic Properties. *Journal of Physical Chemistry C*, **2011**, 115, 15778-15784	3.8	33
344	Enhanced photocatalytic activity of La-doped AgNbO3 under visible light irradiation. *Dalton Transactions*, **2009**, 2423-7	4.3	33
343	Plasmonic photothermal catalysis for solar-to-fuel conversion: current status and prospects. *Chemical Science*, **2021**, 12, 5701-5719	9.4	33
342	Recent Progress on Exploring Stable Metal□Organic Frameworks for Photocatalytic Solar Fuel Production. *Solar Rrl*, **2020**, 4, 1900547	7.1	32
341	Facile synthesis of hollow Ag@AgBr heterostructures with highly efficient visible-light photocatalytic properties. *CrystEngComm*, **2014**, 16, 8317	3.3	32
340	Preparation of Fe2O3/SrTiO3 composite powders and their photocatalytic properties. *Journal of Physics and Chemistry of Solids*, **2007**, 68, 280-283	3.9	32
339	Enhanced photoelectrolysis of water with photoanode Nb:SrTiO3. *Applied Physics Letters*, **2004**, 85, 689-691	3.4	32
338	Probing the role of nickel dopant in aqueous colloidal ZnS nanocrystals for efficient solar-driven CO2 reduction. *Applied Catalysis B: Environmental*, **2019**, 244, 1013-1020	21.8	32
337	Enhanced water oxidation reaction kinetics on a BiVO4 photoanode by surface modification with Ni4O4 cubane. *Journal of Materials Chemistry A*, **2019**, 7, 278-288	13	31
336	Remarkable Visible-Light Photocatalytic Activity Enhancement over Au/p-type TiO Promoted by Efficient Interfacial Charge Transfer. *ACS Applied Materials & Interfaces*, **2019**, 11, 24154-24163	9.5	31
335	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. *Advanced Functional Materials*, **2019**, 29, 1901024	15.6	31
334	Hemispherical shell-thin lamellar WS2 porous structures composited with CdS photocatalysts for enhanced H2 evolution. *Chemical Engineering Journal*, **2020**, 388, 124346	14.7	31
333	Photocatalytic Properties of TiO[sub 2] Nanostructures Fabricated by Means of Glancing Angle Deposition and Anodization. *Journal of the Electrochemical Society*, **2009**, 156, K160	3.9	31
332	The crystalline/amorphous contact in Cu2O/Ta2O5 heterostructures: increasing its sunlight-driven overall water splitting efficiency. *Journal of Materials Chemistry A*, **2017**, 5, 2732-2738	13	30
331	Facile and Nonradiation Pretreated Membrane as a High Conductive Separator for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 20184-9	9.5	30

330	Ultrathin graphene encapsulated Cu nanoparticles: A highly stable and efficient catalyst for photocatalytic H2 evolution and degradation of isopropanol. *Chemical Engineering Journal*, **2020**, 390, 124558	14.7	30
329	Constructing and controlling of highly dispersed metallic sites for catalysis. *Nano Today*, **2018**, 19, 108-125	17.9	30
328	Selective Deposition of Ag3PO4 on Specific Facet of BiVO4 Nanoplate for Enhanced Photoelectrochemical Performance. *Solar Rrl*, **2018**, 2, 1800102	7.1	30
327	A new type of hybrid nanostructure: complete photo-generated carrier separation and ultrahigh photocatalytic activity. *Journal of Materials Chemistry A*, **2014**, 2, 14245-14250	13	30
326	Undoped visible-light-sensitive titania photocatalyst. *Journal of Materials Science*, **2013**, 48, 108-114	4.3	30
325	Synthesis of hierarchical Ag2ZnGeO4 hollow spheres for enhanced photocatalytic property. *Chemical Communications*, **2012**, 48, 9894-6	5.8	30
324	Nanoarchitectonics of a Au nanoprism array on WO film for synergistic optoelectronic response. *Science and Technology of Advanced Materials*, **2011**, 12, 044604	7.1	30
323	Growth of Single Crystals in the Systems withR□hB and R□hBC (R=Rare Earth Element) from Molten Copper Flux. *Journal of Solid State Chemistry*, **1997**, 133, 82-87	3.3	30
322	Semiconductor-Based Photoelectrochemical Conversion of Carbon Dioxide: Stepping Towards Artificial Photosynthesis. *Chemistry - an Asian Journal*, **2018**, 13, 127-142	4.5	30
321	Fabrication of Ag3PO4□AN composite nanofibers for photocatalytic applications. *CrystEngComm*, **2013**, 15, 4802	3.3	29
320	WO3 modified titanate network film: highly efficient photo-mineralization of 2-propanol under visible light irradiation. *Chemical Communications*, **2010**, 46, 5352-4	5.8	29
319	Photooxidation of Polycyclic Aromatic Hydrocarbons over NaBiO3 under Visible Light Irradiation. *Catalysis Letters*, **2008**, 122, 131-137	2.8	29
318	Preparation, structural and optical properties of a new class of compounds, Bi2MNbO7 (M=Al, Ga, In). *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2001**, 79, 83-85	3.1	29
317	A mesoporous non-precious metal boride system: synthesis of mesoporous cobalt boride by strictly controlled chemical reduction. *Chemical Science*, **2019**, 11, 791-796	9.4	29
316	Fabrication of Fe2TiO5/TiO2 nanoheterostructures with enhanced visible-light photocatalytic activity. *RSC Advances*, **2016**, 6, 45343-45348	3.7	29
315	Visible-light photodecomposition of acetaldehyde by TiO2-coated gold nanocages: plasmon-mediated hot electron transport via defect states. *Chemical Communications*, **2014**, 50, 15553-6	5.8	28
314	Synthesis of graphene/tourmaline/TiO 2 composites with enhanced activity for photocatalytic degradation of 2-propanol. *Chinese Journal of Catalysis*, **2017**, 38, 1307-1314	11.3	28
313	Photoanodic properties of pulsed-laser-deposited □Fe2O3electrode. *Journal Physics D: Applied Physics*, **2010**, 43, 325101	3	28

312	Effective decolorizations and mineralizations of organic dyes over a silver germanium oxide photocatalyst under indoor-illumination irradiation. *Applied Catalysis A: General*, **2009**, 366, 309-314	5.1	28
311	Preparation and photophysical properties of some oxides in CaBiO system. *Journal of Alloys and Compounds*, **2008**, 455, 346-352	5.7	28
310	The electronic structures of the thin films of InVO4 and TiO2 by first principles calculations. *Thin Solid Films*, **2003**, 445, 168-174	2.2	28
309	Photocatalytic H2 evolution over a new visible-light-driven photocatalyst In12NiCr2Ti10O42. *Chemical Physics Letters*, **2005**, 411, 285-290	2.5	28
308	Selective Preparation of 1T- and 2H-Phase MoS2 Nanosheets with Abundant Monolayer Structure and Their Applications in Energy Storage Devices. *ACS Applied Energy Materials*, **2020**, 3, 998-1009	6.1	28
307	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO2 electroreduction. *Nano Energy*, **2020**, 77, 105010	17.1	28
306	Ultrathin CobaltManganese Nanosheets: An Efficient Platform for Enhanced Photoelectrochemical Water Oxidation with Electron-Donating Effect. *Advanced Functional Materials*, **2019**, 29, 1904622	15.6	27
305	One-pot synthesis of peroxo-titania nanopowder and dual photochemical oxidation in aqueous methanol solution. *Journal of Colloid and Interface Science*, **2009**, 331, 132-7	9.3	27
304	Preparation, structural and photophysical properties of Bi2InNbO7 compound. *Journal of Materials Science Letters*, **2000**, 19, 1909-1911		27
303	Synthesis and characterization of the nonstoichiometric perovskite-type compound ScRh3Bx. *Journal of Alloys and Compounds*, **2000**, 309, 107-112	5.7	27
302	Nitrogen-doped ultrathin graphene encapsulated Cu nanoparticles decorated on SrTiO3 as an efficient water oxidation photocatalyst with activity comparable to BiVO4 under visible-light irradiation. *Applied Catalysis B: Environmental*, **2020**, 279, 119352	21.8	27
301	Finely dispersed Au nanoparticles on graphitic carbon nitride as highly active photocatalyst for hydrogen peroxide production. *Catalysis Communications*, **2019**, 123, 69-72	3.2	27
300	Solar-driven production of hydrogen and acetaldehyde from ethanol on Ni-Cu bimetallic catalysts with solar-to-fuels conversion efficiency up to 3.8 %. *Applied Catalysis B: Environmental*, **2020**, 272, 118965	21.8	26
299	A new type of p-type NiO/n-type ZnO nano-heterojunctions with enhanced photocatalytic activity. *RSC Advances*, **2014**, 4, 34649	3.7	26
298	Preparation, characterization and photocatalytic activity of polycrystalline Bi2O3/SrTiO3 composite powders. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 2501-2505	3.9	26
297	Photocatalytic properties of a novel layered photocatalyst CsLaSrNb2NiO9. *Catalysis Letters*, **2006**, 110, 139-142	2.8	26
296	Substitution effect of Ta5+ by Nb5+ on photocatalytic, photophysical, and structural properties of BiTa1NbxO4(0 ? x ? 1.0). *Journal of Materials Research*, **2002**, 17, 1446-1454	2.5	26
295	Enhancement of Visible-Light Photocatalytic Activity of Ag0.7Na0.3NbO3 Modified by a Platinum Complex. *Journal of Physical Chemistry C*, **2008**, 112, 20329-20333	3.8	25

294	Role of phosphorus in synthesis of phosphated mesoporous TiO2 photocatalytic materials by EISA method. *Applied Surface Science*, **2008**, 254, 5191-5198	6.7	25
293	Photocatalytic Behavior of a New Series of In0.8M0.2TaO4 (M = Ni, Cu, Fe) Photocatalysts in Aqueous Solutions. *Catalysis Letters*, **2001**, 75, 209-213	2.8	25
292	Solar-Driven Hydrogen Production: Recent Advances, Challenges, and Future Perspectives. *ACS Energy Letters*, **2022**, 7, 1043-1065	20.1	25
291	Stabilizing CuGaS by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO reduction under visible light. *Nanoscale*, **2020**, 12, 8693-8700	7.7	24
290	Superfine Ag nanoparticle decorated Zn nanoplates for the active and selective electrocatalytic reduction of CO to CO. *Chemical Communications*, **2016**, 52, 14105-14108	5.8	24
289	Design of a photoelectrochemical device for the selective conversion of aqueous CO2 to CO: using mesoporous palladium-copper bimetallic cathode and hierarchical ZnO-based nanowire array photoanode. *Chemical Communications*, **2016**, 52, 8235-8	5.8	24
288	Photocatalytic hydrogen evolution over SiO2-pillared and nitrogen-doped titanic acid under visible light irradiation. *Applied Catalysis A: General*, **2010**, 390, 195-200	5.1	24
287	Crystal growth of superconductive PrBa2Cu3O7−δ. *Physica C: Superconductivity and Its Applications*, **1998**, 300, 200-206	1.3	24
286	Solid solution range of boron, microhardness and oxidation resistance of the perovskite type RERh3Bx (RE=Gd, Y, Sc) compounds. *Journal of Alloys and Compounds*, **1999**, 291, 52-56	5.7	24
285	Copper nanoparticles selectively encapsulated in an ultrathin carbon cage loaded on SrTiO as stable photocatalysts for visible-light H evolution via water splitting. *Chemical Communications*, **2019**, 55, 12900-12903	5.8	24
284	Efficient and selective photocatalytic CH conversion to CHOH with O by controlling overoxidation on TiO. *Nature Communications*, **2021**, 12, 4652	17.4	24
283	Series of ZnSn(OH) Polyhedra: Enhanced CO Dissociation Activation and Crystal Facet-Based Homojunction Boosting Solar Fuel Synthesis. *Inorganic Chemistry*, **2017**, 56, 5704-5709	5.1	23
282	PbS/CdS nanocrystal-sensitized titanate network films: enhanced photocatalytic activities and super-amphiphilicity. *Journal of Materials Chemistry*, **2010**, 20, 10187		23
281	Photocatalytic Degradation of Isopropanol Over PbSnO(3) Nanostructures Under Visible Light Irradiation. *Nanoscale Research Letters*, **2009**, 4, 274-280	5	23
280	Photophysical and Photocatalytic Properties of Three Isostructural Oxide Semiconductors In6NiTi6O22, In3CrTi2O10, and In12NiCr2Ti10O42with Different 3d Transition Metals. *Journal of Physical Chemistry C*, **2007**, 111, 12848-12854	3.8	23
279	A new efficient visible-light-driven photocatalyst Na0.5Bi1.5VMoO8 for oxygen evolution. *Chemical Physics Letters*, **2008**, 450, 370-374	2.5	23
278	Synthesis and photophysical properties of barium indium oxides. *Journal of Materials Research*, **2002**, 17, 2201-2204	2.5	23
277	Comprehensive analysis of Helicobacter pylori infection-associated diseases based on miRNA-mRNA interaction network. *Briefings in Bioinformatics*, **2019**, 20, 1492-1501	13.4	23

276	Unravelling the effects of layered supports on Ru nanoparticles for enhancing N2 reduction in photocatalytic ammonia synthesis. *Applied Catalysis B: Environmental*, **2019**, 259, 118026	21.8	22
275	Effective mineralization of organic dye under visible-light irradiation over electronic-structure-modulated Sn(Nb 1− Ta x) 2 O 6 solid solutions. *Applied Catalysis B: Environmental*, **2015**, 168-169, 243-249	21.8	22
274	Combination of photocatalytic and antibacterial effects of silver oxide loaded on titania nanotubes. *Materials Letters*, **2011**, 65, 236-239	3.3	22
273	Role of Particle Sizes in Hydrogen Generation by the Reaction of Al with Water. *Journal of the American Ceramic Society*, **2010**, 93, 2998-3001	3.8	22
272	A novel Zn-doped Lu2O3/Ga2O3 composite photocatalyst for stoichiometric water splitting under UV light irradiation. *Chemical Physics Letters*, **2004**, 384, 139-143	2.5	22
271	A novel series of photocatalysts M2.5VMoO8 (M = Mg, Zn) for O2 evolution under visible light irradiation. *Catalysis Today*, **2004**, 93-95, 891-894	5.3	22
270	A selective Au-ZnO/TiO2 hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. *Nature Catalysis*,	36.5	22
269	Defective g-C3N4/covalent organic framework van der Waals heterojunction toward highly efficient S-scheme CO2 photoreduction. *Applied Catalysis B: Environmental*, **2022**, 301, 120814	21.8	22
268	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metal-Support Interaction Boosts Photocatalysis. *Small*, **2020**, 16, e2002356	11	22
267	Triggering Water and Methanol Activation for Solar-Driven H Production: Interplay of Dual Active Sites over Plasmonic ZnCu Alloy. *Journal of the American Chemical Society*, **2021**, 143, 12145-12153	16.4	22
266	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic HO production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. *Chemical Communications*, **2019**, 55, 13279-13282	5.8	22
265	Breaking Platinum Nanoparticles to Single-Atomic Pt-C Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. *Angewandte Chemie - International Edition*, **2021**, 60, 2541-2547	16.4	22
264	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. *Journal of Materials Chemistry A*, **2019**, 7, 13629-13634	13	21
263	Modulation of sulfur partial pressure in sulfurization to significantly improve the photoelectrochemical performance over the Cu2ZnSnS4 photocathode. *Chemical Communications*, **2015**, 51, 14057-9	5.8	21
262	Novel visible-light sensitive vanadate photocatalysts for water oxidation: implications from density functional theory calculations. *Journal of Materials Chemistry A*, **2015**, 3, 10720-10723	13	21
261	Ultrathin FeP Nanosheets as an Efficient Catalyst for Electrocatalytic Water Oxidation: Promoted Intermediates Adsorption by Surface Defects. *ACS Applied Energy Materials*, **2020**, 3, 3577-3585	6.1	21
260	Polymeric micelle assembly for the direct synthesis of functionalized mesoporous silica with fully accessible Pt nanoparticles toward an improved CO oxidation reaction. *Chemical Communications*, **2014**, 50, 9101-4	5.8	21
259	Nanorod-like Bi2O3: a highly active photocatalyst synthesized using g-C3N4 as a template. *RSC Advances*, **2014**, 4, 55062-55066	3.7	21

258	From Phase Particle to Phase Hexagonal-Platelet Superstructure over AgGaO2: Phase Transformation, Formation Mechanism of Morphology, and Photocatalytic Properties. *Crystal Growth and Design*, **2010**, 10, 2921-2927	3.5	21
257	Synthesis of bismuth molybdate photocatalysts for CO2 photo-reduction. *Journal of CO2 Utilization*, **2019**, 29, 196-204	7.6	21
256	Unique homo-heterojunction synergistic system consisting of stacked BiOCl nanoplate/Zn-Cr layered double hydroxide nanosheets promoting photocatalytic conversion of CO into solar fuels. *Chemical Communications*, **2018**, 54, 5126-5129	5.8	20
255	Enhanced Visible-Light-Driven Hydrogen Production of Carbon Nitride by Band Structure Tuning. *Journal of Physical Chemistry C*, **2018**, 122, 17261-17267	3.8	20
254	Preparation and Some Electrical Properties of Yttrium-Doped Antimonic Acids. *Chemistry of Materials*, **2003**, 15, 928-934	9.6	20
253	Photocatalytic oxidation of 2-propanol in the gas phase over cesium bismuth niobates under visible light irradiation. *Research on Chemical Intermediates*, **2005**, 31, 359-364	2.8	20
252	Recent advances in tuning the electronic structures of atomically dispersed M NC materials for efficient gas-involving electrocatalysis. *Materials Horizons*, **2020**, 7, 970-986	14.4	20
251	A novel Cl- modification approach to develop highly efficient photocatalytic oxygen evolution over BiVO4 with AQE of 34.6%. *Nano Energy*, **2021**, 81, 105651	17.1	20
250	Designing Carbonized Loofah Sponge Architectures with Plasmonic Cu Nanoparticles Encapsulated in Graphitic Layers for Highly Efficient Solar Vapor Generation. *Nano Letters*, **2021**, 21, 1709-1715	11.5	20
249	Fabrication of Fe3O4@graphene/TiO2 nanohybrid with enhanced photocatalytic activity for isopropanol degradation. *Journal of Alloys and Compounds*, **2019**, 792, 918-927	5.7	19
248	Polymeric carbon nitride with frustrated Lewis pair sites for enhanced photofixation of nitrogen. *Journal of Materials Chemistry A*, **2020**, 8, 13292-13298	13	19
247	Integrated analysis of microfibrillar-associated proteins reveals MFAP4 as a novel biomarker in human cancers. *Epigenomics*, **2019**, 11, 1635-1651	4.4	19
246	Role of photoexcited electrons in hydrogen evolution from platinum co-catalysts loaded on anatase TiO2: a first-principles study. *Journal of Materials Chemistry A*, **2013**, 1, 6664	13	19
245	Synchronizing concurrent model updates based on bidirectional transformation. *Software and Systems Modeling*, **2013**, 12, 89-104	1.9	19
244	Synthesis of monodisperse Zn-smectite. *Applied Clay Science*, **2010**, 48, 55-59	5.2	19
243	Water adsorption onto Y and V sites at the surface of the YVO4 photocatalyst and related electronic properties. *Journal of Chemical Physics*, **2009**, 131, 034701	3.9	19
242	Water molecule adsorption properties on surfaces of MVO4 (M = In, Y, Bi) photo-catalysts. *Journal of Electroceramics*, **2009**, 22, 114-119	1.5	19
241	Synergistic effect of different phase on the photocatalytic activity of visible light sensitive silver antimonates. *Journal of Molecular Catalysis A*, **2010**, 320, 79-84		19

240	Kinetics of MB degradation and effect of pH on the photocatalytic activity of MIn2O4 (M = Ca, Sr, Ba) under visible light irradiation. *Research on Chemical Intermediates*, **2005**, 31, 513-519	2.8	19
239	Three-dimensional Bi2MoO6/TiO2 array heterojunction photoanode modified with cobalt phosphate cocatalyst for high-efficient photoelectrochemical water oxidation. *Catalysis Today*, **2019**, 335, 262-268	5.3	19
238	Alkali Treatment for Enhanced Photoelectrochemical Water Oxidation on Hematite Photoanode. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5420-5429	8.3	18
237	Enhanced photocatalytic degradation of 2-propanol over macroporous GaN/ZnO solid solution prepared by a novel sol-gel method. *APL Materials*, **2015**, 3, 104414	5.7	18
236	Conversion of Carbon Dioxide by Methane Reforming under Visible-Light Irradiation: Surface-Plasmon-Mediated Nonpolar Molecule Activation. *Angewandte Chemie*, **2015**, 127, 11707-11711	3.6	18
235	Photoinduced amphiphilic property of InNbO4 thin film. *Langmuir*, **2007**, 23, 1924-7	4	18
234	Oxygen potential control in YBa2Cu3O7□thin films. *Physica C: Superconductivity and Its Applications*, **1993**, 213, 1-13	1.3	18
233	Fabrication of Black In2O3 with Dense Oxygen Vacancy through Dual Functional Carbon Doping for Enhancing Photothermal CO2 Hydrogenation. *Advanced Functional Materials*, **2021**, 31, 2100908	15.6	18
232	Highly efficient Cu induced photocatalysis for visible-light hydrogen evolution. *Catalysis Today*, **2019**, 335, 166-172	5.3	18
231	State-of-the-Art Progress in Diverse Black Phosphorus-Based Structures: Basic Properties, Synthesis, Stability, Photo- and Electrocatalysis-Driven Energy Conversion. *Advanced Functional Materials*, **2021**, 31, 2005197	15.6	18
230	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion.. *Advanced Materials*, **2022**, e2200180	24	18
229	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. *ChemCatChem*, **2020**, 12, 3870-3879	5.2	17
228	Comparative study of photoinduced wettability conversion between [PW12O40]3□brookite and [SiW12O40]4□brookite hybrid films. *Materials Chemistry and Physics*, **2014**, 144, 327-334	4.4	17
227	Fabrication of ZnxCd1□Se Nanocrystal-Sensitized TiO2 Nanotube Arrays and Their Photoelectrochemical Properties. *Journal of Physical Chemistry C*, **2012**, 116, 16885-16892	3.8	17
226	Photochromism and visible light induced H2 generation in Sr2TiO4:Cr complexes. *Applied Physics Letters*, **2010**, 96, 114103	3.4	17
225	Preparation of Ag-I Intercalated Bi2Sr2CaCu2OySuperconductor. *Japanese Journal of Applied Physics*, **1993**, 32, L894-L897	1.4	17
224	Toward solar-driven carbon recycling. *Joule*, **2022**,	27.8	17
223	Light irradiation enhanced CO2 reduction with methane: A case study in size-dependent optical property of Ni nanoparticles. *Catalysis Today*, **2019**, 335, 187-192	5.3	17

222	Two-dimensional titanium oxide nanosheets rich in titanium vacancies as an efficient cocatalyst for photocatalytic water oxidation. *Journal of Catalysis*, **2018**, 367, 296-305	7.3	17
221	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. *Angewandte Chemie*, **2017**, 129, 5662-5666	3.6	16
220	Bio-directed morphology engineering towards hierarchical 1D to 3D macro/meso/nanoscopic morph-tunable carbon nitride assemblies for enhanced artificial photosynthesis. *Journal of Materials Chemistry A*, **2017**, 5, 2195-2203	13	16
219	Lithium incorporation assisted synthesis of ultra-small Mo2C nanodots as efficient photocatalytic H2 evolution cocatalysts. *Chemical Engineering Journal*, **2020**, 399, 125794	14.7	16
218	Room-temperature driven and visible light enhanced dehydrogenation reactions catalysed by basic Au/SrTiO3. *Journal of Materials Chemistry A*, **2016**, 4, 1941-1946	13	16
217	Self-templated construction of 1D NiMo nanowires via a Li electrochemical tuning method for the hydrogen evolution reaction. *Nanoscale*, **2019**, 11, 19429-19436	7.7	16
216	Boron nonstoichiometry, hardness and oxidation resistance of perovskite-type CeRh3Bx (x=0[illegible]1). *Journal of Alloys and Compounds*, **2006**, 426, 304-307	5.7	16
215	Photocatalytic Decomposition of Acetaldehyde over Rubidium Bismuth Niobates under Visible Light Irradiation. *Materials Transactions*, **2005**, 46, 2694-2698	1.3	16
214	Direct metal laser sintering synthesis of carbon nanotube reinforced Ti matrix composites: Densification, distribution characteristics and properties. *Journal of Materials Research*, **2016**, 31, 281-291	2.5	16
213	Photochemical Conversion and Storage of Solar Energy. *ACS Energy Letters*, **2019**, 4, 405-410	20.1	16
212	Synergistic effect between TiO2 and ubiquitous metal oxides on photocatalytic activity of composite nanostructures. *Journal of the Ceramic Society of Japan*, **2014**, 122, 393-397	1	15
211	Morphology influence on photocatalytic activity of tungsten oxide loaded by platinum nanoparticles. *Journal of Materials Research*, **2010**, 25, 141-148	2.5	15
210	Synthesis of zinc oxide fibers from precursor bis(acetylacetonato)zinc. *Journal of Alloys and Compounds*, **2007**, 439, 227-231	5.7	15
209	Photocatalytic properties of CaBiVMO8 (where M=W and Mo) compounds. *Catalysis Today*, **2006**, 116, 18-21	5.3	15
208	Optical and structural properties of solid oxide photocatalyst Bi2FeNbO7. *Journal of Materials Research*, **2001**, 16, 35-37	2.5	15
207	Effect of Ni substitution on the structure and photocatalytic activity of InTaO4 under visible light irradiation. *Journal of Materials Research*, **2002**, 17, 1419-1424	2.5	15
206	Rational construction of dual cobalt active species encapsulated by ultrathin carbon matrix from MOF for boosting photocatalytic H2 generation. *Applied Catalysis B: Environmental*, **2021**, 286, 119924	21.8	15
205	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. *Applied Catalysis B: Environmental*, **2021**, 288, 119976	21.8	15

204	Mesoporous TiO2/Zn2Ti3O8 hybrid films synthesized by polymeric micelle assembly. *Chemical Communications*, **2015**, 51, 14582-5	5.8	14
203	Ultrahigh efficient water oxidation under visible light: Using Fe dopants to integrate nanostructure and cocatalyst in LaTiO2N system. *Nano Energy*, **2016**, 19, 437-445	17.1	14
202	Direct synthesis of a mesoporous TiO2-RuO2 composite through evaporation-induced polymeric micelle assembly. *Physical Chemistry Chemical Physics*, **2014**, 16, 10425-8	3.6	14
201	Enhancement of photocatalytic activity for WO3 by simple NaOH loading. *Applied Catalysis A: General*, **2014**, 488, 183-188	5.1	14
200	Building Niobate Nanoparticles with Hexaniobate Lindqvist Ions. *European Journal of Inorganic Chemistry*, **2010**, 2010, 1473-1480	2.3	14
199	Synthesis of hierarchical macro-/mesoporous solid-solution photocatalysts by a polymerization-carbonization-oxidation route: the case of Ce(0.49)Zr(0.37)Bi(0.14)O(1.93). *Chemistry - A European Journal*, **2010**, 16, 8719-25	4.8	14
198	Comparison of photocatalytic activities of two kinds of lead magnesium niobate for decomposition of organic compounds under visible-light irradiation. *Journal of Materials Research*, **2007**, 22, 2590-2597	2.5	14
197	Evidence from high-pressure experiments that PrBa2Cu3Ox is a normal YBa2Cu3Ox-like oxide superconductor. *Physica C: Superconductivity and Its Applications*, **1999**, 328, 111-117	1.3	14
196	A disparate role of RP11-424C20.2/UHRF1 axis through control of tumor immune escape in liver hepatocellular carcinoma and thymoma. *Aging*, **2019**, 11, 6422-6439	5.6	14
195	Electrocatalytic reduction of N2 and nitrogen-incorporation process on dopant-free defect graphene. *Journal of Materials Chemistry A*, **2020**, 8, 55-61	13	14
194	Solid-state synthesis of ultra-small freestanding amorphous MoP quantum dots for highly efficient photocatalytic H2 production. *Chemical Engineering Journal*, **2021**, 406, 126838	14.7	14
193	Marimo-Bead-Supported Core-Shell Nanocomposites of Titanium Nitride and Chromium-Doped Titanium Dioxide as a Highly Efficient Water-Floatable Green Photocatalyst. *ACS Applied Materials & Interfaces*, **2020**, 12, 31327-31339	9.5	13
192	Atomic carbon chains-mediated carriers transfer over polymeric carbon nitride for efficient photocatalysis. *Applied Catalysis B: Environmental*, **2019**, 259, 118027	21.8	13
191	Enhanced photocatalytic properties of biomimetic Ag/AgCl heterostructures. *RSC Advances*, **2014**, 4, 31795-31798	3.7	13
190	Titania nanotubes and fullerenes C60 assemblies and their photocatalytic activity under visible light. *Ceramics International*, **2014**, 40, 1297-1302	5.1	13
189	Exceptional enhancement of H2 production in alkaline environment over plasmonic Au/TiO2 photocatalyst under visible light. *APL Materials*, **2015**, 3, 104401	5.7	13
188	Photocatalytic Properties and Electronic Structure of a Novel Series of Solid Photocatalysts, Bi2 RNbO7 (R = Y, Rare Earth). *Topics in Catalysis*, **2003**, 22, 107-110	2.3	13
187	Some structural and photophysical properties of two functional double oxides Bi2MTaO7 (M = Ga and In). *Journal of Alloys and Compounds*, **2004**, 377, 248-252	5.7	13

186	Boron Dopant Induced Electron-Rich Bismuth for Electrochemical CO Reduction with High Solar Energy Conversion Efficiency. *Small*, **2021**, 17, e2101128	11	13
185	Hematite homojunctions without foreign element doping for efficient and stable overall water splitting. *RSC Advances*, **2016**, 6, 62263-62269	3.7	13
184	Kopplung von Solarenergie und W□meenergie zur Kohlendioxidreduktion: Aktueller Stand und Perspektiven. *Angewandte Chemie*, **2020**, 132, 8092-8111	3.6	13
183	Solar-Driven Water□Gas Shift Reaction over CuOx/Al2O3 with 1.1 % of Light-to-Energy Storage. *Angewandte Chemie*, **2019**, 131, 7790-7794	3.6	12
182	Metal-Reduced WO3□ Electrodes with Tunable Plasmonic Resonance for Enhanced Photoelectrochemical Water Splitting. *ACS Applied Energy Materials*, **2020**, 3, 3569-3576	6.1	12
181	The Role of Ni-Based Cocatalyst in Inhomogeneous RVO4 Photocatalyst Systems (R = Y, Gd). *Journal of Physical Chemistry C*, **2014**, 118, 12845-12854	3.8	12
180	Solid-base loaded WO3 photocatalyst for decomposition of harmful organics under visible light irradiation. *APL Materials*, **2015**, 3, 104411	5.7	12
179	Constructing a multicomponent junction for improved visible-light photocatalytic performance induced by Au nanoparticles. *Chemical Communications*, **2015**, 51, 2173-6	5.8	12
178	Crystal structure of layered perovskite compound, Li2LaTa2O6N. *Powder Diffraction*, **2011**, 26, 4-8	1.8	12
177	Role of Modification Agent Coverage in Hydrogen Generation by the Reaction of Al with Water. *Journal of the American Ceramic Society*, **2010**, 93, 2534-2536	3.8	12
176	Photoinduced degradation of organic dye over LiBiO3 under illumination of white fluorescent light. *Journal of Materials Research*, **2010**, 25, 177-181	2.5	12
175	Preparation and photocatalytic property of LiCr(WO4)2. *Journal of Alloys and Compounds*, **2009**, 485, 346-350	5.7	12
174	Inorganic alkaline-sols as precursors for rapid synthesis of ETS-10 microporous titanosilicates and their photocatalytic reforming of methanol under visible-light irradiation. *Catalysis Communications* , **2009**, 11, 261-265	3.2	12
173	Electrical resistivity, oxidation resistivity and hardness of single crystal compounds in the ErRhB system. *Journal of Alloys and Compounds*, **1998**, 280, 65-70	5.7	12
172	R-Dependency of the Hardness of Perovskite-Type RRh3B Compounds (R = La, Gd, Lu and Sc). *Japanese Journal of Applied Physics*, **2001**, 40, 6037-6038	1.4	12
171	Integrated analysis of pseudogene RP11-564D11.3 expression and its potential roles in hepatocellular carcinoma. *Epigenomics*, **2019**, 11, 267-280	4.4	12
170	Efficient photocatalytic conversion of CH into ethanol with O over nitrogen vacancy-rich carbon nitride at room temperature. *Chemical Communications*, **2021**, 57, 871-874	5.8	12
169	La,Al-Codoped SrTiO3 as a Photocatalyst in Overall Water Splitting: Significant Surface Engineering Effects on Defect Engineering. *ACS Catalysis*, **2021**, 11, 11429-11439	13.1	12

168	Enhancing photocatalytic CO2 reduction performance of g-C3N4-based catalysts with non-noble plasmonic nanoparticles. *Applied Catalysis B: Environmental*, **2021**, 297, 120440	21.8	12
167	Interfacing Photosynthetic Membrane Protein with Mesoporous WO Photoelectrode for Solar Water Oxidation. *Small*, **2018**, 14, e1800104	11	11
166	Effect of band structure on the hot-electron transfer over Au photosensitized brookite TiO2. *Physical Chemistry Chemical Physics*, **2016**, 18, 3409-12	3.6	11
165	Preparation and characterization of visible light sensitive Fe- and Ta-codoped TiO2 photocatalyst. *Journal of Materials Research*, **2010**, 25, 110-116	2.5	11
164	Correlation of crystal structures, electronic structures and photocatalytic properties in W-based oxides. *Journal Physics D: Applied Physics*, **2009**, 42, 125402	3	11
163	Synthesis, magnetic and electrical transport properties of the Bi2InNbO7 compound. *Solid State Communications*, **2000**, 116, 259-263	1.6	11
162	Growth and Superconductivity of a New Ternary Intermetallic Compound, Ta5Ga2Sn. *Japanese Journal of Applied Physics*, **1989**, 28, 1519-1520	1.4	11
161	Photothermal catalysts for hydrogenation reactions. *Chemical Communications*, **2021**, 57, 1279-1294	5.8	11
160	Cooperative catalysis coupling photo-/photothermal effect to drive Sabatier reaction with unprecedented conversion and selectivity. *Joule*, **2021**, 5, 3235-3251	27.8	11
159	Targeted removal of interfacial adventitious carbon towards directional charge delivery to isolated metal sites for efficient photocatalytic H2 production. *Nano Energy*, **2020**, 76, 105077	17.1	10
158	Identification of long noncoding RNA RP11-169F17.1 and RP11-669N7.2 as novel prognostic biomarkers of stomach adenocarcinoma based on integrated bioinformatics analysis. *Epigenomics*, **2019**, 11, 1307-1321	4.4	10
157	Fullerene nanowhiskers at liquid□quid interface: A facile template for metal oxide (TiO2, CeO2) nanofibers and their photocatalytic activity. *Materials Chemistry and Physics*, **2011**, 130, 211-217	4.4	10
156	Enhanced N-doping efficiency and photocatalytic H2 evolution rate of InNbO4 by mechanochemical activation. *Journal of Materials Research*, **2010**, 25, 159-166	2.5	10
155	Single-crystal growth of silver-lead oxide Ag5Pb2O6 from fused nitrates. *Journal of Crystal Growth*, **2002**, 241, 347-351	1.6	10
154	Single crystal growth and characterization of a new bismuth indium niobate compound, Bi5In2Nb3O18□. *Journal of Alloys and Compounds*, **1999**, 292, 72-76	5.7	10
153	Relaxation of crystallographic defects in YBa2Cu3O7□thin films by heat treatment and its effects on Tc. *Physica C: Superconductivity and Its Applications*, **1995**, 254, 113-123	1.3	10
152	Photogenerated Charge Carriers Dynamics on La- and/or Cr-Doped SrTiO3 Nanoparticles Studied by Transient Absorption Spectroscopy. *Journal of Physical Chemistry C*, **2020**, 124, 1292-1302	3.8	10
151	Constructing Chemical Interaction between Hematite and Carbon Nanosheets with Single Active Sites for Efficient Photo-Electrochemical Water Oxidation. *Small Methods*, **2020**, 4, 2000577	12.8	10

150	Molecular-level understanding of the deactivation pathways during methanol photo-reforming on Pt-decorated TiO2. *Applied Catalysis B: Environmental*, **2020**, 272, 118980	21.8	10
149	Lipolysis and Lipid Oxidation during Processing of Chinese Traditional Dry-Cured White Amur Bream (Parabramis pekinensis). *Journal of Aquatic Food Product Technology*, **2017**, 26, 719-730	1.6	9
148	Enhanced Photocatalytic CO2 Reduction over TiO2 Using Metalloporphyrin as the Cocatalyst. *Catalysts*, **2020**, 10, 654	4	9
147	Significant enhancement in photocatalytic activity of (GaN)1□(ZnO)x nanowires via solubility and crystal facet tailoring. *AIP Advances*, **2018**, 8, 015206	1.5	9
146	Preparation of fine, uniform nitrogen- and sulfur-modified TiO nanoparticles from titania nanotubes. *Science and Technology of Advanced Materials*, **2010**, 11, 055001	7.1	9
145	Crystal growth and characterizations of ErRh3B2. *Journal of Alloys and Compounds*, **1997**, 248, 18-23	5.7	9
144	Molten metal flux growth and properties of CrSi2. *Journal of Alloys and Compounds*, **2004**, 383, 319-321	5.7	9
143	Growth and characterization of Va-Sn-Ga (Va = Ta, Nb, V) superconducting compounds. *Journal of Crystal Growth*, **1990**, 99, 969-974	1.6	9
142	Coupling of Cu Catalyst and Phosphonated Ru Complex Light Absorber with TiO2 as Bridge to Achieve Superior Visible Light CO2 Photoreduction. *Transactions of Tianjin University*, **2020**, 26, 470-478	2.9	9
141	In Situ Assembly of MoSx Thin-Film through Self-Reduction on p-Si for Drastic Enhancement of Photoelectrochemical Hydrogen Evolution. *Advanced Functional Materials*, **2021**, 31, 2007071	15.6	9
140	A universal strategy boosting photoelectrochemical water oxidation by utilizing MXene nanosheets as hole transfer mediators. *Applied Catalysis B: Environmental*, **2021**, 297, 120268	21.8	9
139	Photophysical and photocatalytic properties of Li2M(WO4)2 (M = Co and Ni). *Journal of Materials Research*, **2008**, 23, 3309-3315	2.5	8
138	Temperature dependence of lattice parameters in □? Au□49.5at.%Cd martensite and the relationship between parent and martensite. *Scripta Materialia*, **2003**, 49, 291-295	5.6	8
137	Hardness and oxidation resistance of perovskite-type borocarbide system YRh3BxC1□ (0?x?1). *Journal of Alloys and Compounds*, **2003**, 354, 198-201	5.7	8
136	Boron□Carbon Atomic Ratio Dependence on the Hardness and Oxidation Resistance of Solid Solutions of Perovskite-Type Borocarbide YRh3BxC1-x(0?x?1). *Japanese Journal of Applied Physics*, **2002**, 41, 3031-3032	1.4	8
135	Machine Learning in Screening High Performance Electrocatalysts for CO Reduction.. *Small Methods* , **2021**, 5, e2100987	12.8	8
134	Fabrication of a TiO/FeO Core/Shell Nanostructure by Pulse Laser Deposition toward Stable and Visible Light Photoelectrochemical Water Splitting. *ACS Omega*, **2020**, 5, 19861-19867	3.9	8
133	Metal-organic framework-derived Ga-Cu/CeO2 catalyst for highly efficient photothermal catalytic CO2 reduction. *Applied Catalysis B: Environmental*, **2021**, 298, 120519	21.8	8

132	Engineering Heterogeneous NiS /NiS Cocatalysts with Progressive Electron Transfer from Planar p-Si Photocathodes for Solar Hydrogen Evolution.. *Small Methods*, **2021**, 5, e2001018	12.8	8
131	Doping Ba into strontium titanate for enhanced photocatalytic oxygen evolution over its supported Au-based catalysts. *Catalysis Communications*, **2017**, 99, 127-130	3.2	7
130	Band-Gap Engineering of NaNbO3for Photocatalytic H2Evolution with Visible Light. *International Journal of Photoenergy*, **2014**, 2014, 1-6	2.1	7
129	2-propanol photodegradation over molybdates: effects of chemical compositions and electronic structures. *Journal Physics D: Applied Physics*, **2010**, 43, 085402	3	7
128	Cold-welding fabrication of highly ordered gold nanochannel monolayers in aqueous medium. *Chemical Communications*, **2010**, 46, 6912-4	5.8	7
127	Nanoscale calcium bismuth mixed oxide with enhanced photocatalytic performance under visible light. *Applied Catalysis A: General*, **2010**, 382, 190-196	5.1	7
126	Dissociation of water molecule at three-fold oxygen coordinated V site on the InVO4 (001) surface. *Applied Surface Science*, **2008**, 255, 679-681	6.7	7
125	Boron□arbon atomic ratio dependence on the hardness and oxidation resistance of perovskite-type solid solution ScRh3B C1□*Journal of Alloys and Compounds*, **2004**, 375, 217-220	5.7	7
124	Search for perovskite-type new borides in the Sc-TM-B (TM = Ti, V, Cr, Mn, Fe, Co, and Ni) systems. *Journal of Alloys and Compounds*, **2004**, 383, 294-297	5.7	7
123	Photocatalytic O2 evolution with the visible-light-driven photocatalysts M3V2O8 (M = Mg, Zn). *Research on Chemical Intermediates*, **2005**, 31, 433-439	2.8	7
122	Photophysical and photocatalytic properties of the visible-light-driven photocatalysts BaIn0.5Nb0.5O3, BaCo1/3Nb2/3O3 and BaNi1/3Nb2/3O3. *Research on Chemical Intermediates*, **2005**, 31, 463-475	2.8	7
121	Efficient photocatalytic CO2 reduction mediated by transitional metal borides: metal site-dependent activity and selectivity. *Journal of Materials Chemistry A*, **2020**, 8, 21833-21841	13	7
120	Rules for Selecting Metal Cocatalyst Based on Charge Transfer and Separation Efficiency between ZnO Nanoparticles and Noble Metal Cocatalyst Ag/ Au/ Pt. *ChemCatChem*, **2020**, 12, 3838-3842	5.2	7
119	Self-Induced Strain in 2D Chalcogenide Nanocrystals with Enhanced Photoelectrochemical Responsivity. *Chemistry of Materials*, **2020**, 32, 2774-2781	9.6	6
118	Lattice oxygen assisted room-temperature catalytic process: Secondary alcohol dehydrogenation over Au/birnessite photocatalyst. *Applied Catalysis A: General*, **2016**, 521, 149-153	5.1	6
117	Enhancing the photocatalytic activity and photostability of zinc oxide nanorod arrays via graphitic carbon mediation. *Chinese Journal of Catalysis*, **2018**, 39, 973-981	11.3	6
116	Direct splitting of water under visible light irradiation with an oxide semiconductor photocatalyst **2010**, 293-295		6
115	Synthesis and Characterization of New Quaternary BorocarbidesRRh2B2C (R=Rare Earth). *Journal of Solid State Chemistry*, **1997**, 133, 77-81	3.3	6

114	Magnetic and structural properties of superconducting PrBa2Cu3Oy grown by the TSFZ method. *Journal of Alloys and Compounds*, **1998**, 275-277, 37-40	5.7	6
113	Compositional dependence of crystallization in the glass-ceramics system Bi2O3-In2O3-MnO2-B2O3. *Journal of Materials Science Letters*, **2000**, 19, 1987-1990		6
112	Structural disorder and relaxation in YBa2Cu3O7□ thin films and their influences on Tc. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 581-582	1.3	6
111	Concentrating electron and activating H-OH bond of absorbed water on metallic NiCo2S4 boosting photocatalytic hydrogen evolution. *Nano Energy*, **2022**, 95, 107028	17.1	6
110	Unravelling unsaturated edge S in amorphous NiSx for boosting photocatalytic H2 evolution of metastable phase CdS confined inside hydrophilic beads. *Applied Catalysis B: Environmental*, **2022**, 305, 121055	21.8	6
109	Atomic-level insights into surface engineering of semiconductors for photocatalytic CO2 reduction. *Journal of Energy Chemistry*, **2021**,	12	6
108	Photocarriers-enhanced photothermocatalysis of water-gas shift reaction under H2-rich and low-temperature condition over CeO2/Cu1.5Mn1.5O4 catalyst. *Applied Catalysis B: Environmental*, **2021**, 298, 120551	21.8	6
107	Discerning the mechanism of expedited interfacial electron transformation boosting photocatalytic hydrogen evolution by metallic 1T-WS2-induced photothermal effect. *Applied Catalysis B: Environmental*, **2022**, 310, 121295	21.8	6
106	Stable visible-light photocatalytic degradation of organic pollutant by silver salt of Ti-substituted Keggin-type polyoxotungstate. *Journal of Environmental Chemical Engineering*, **2016**, 4, 908-914	6.8	5
105	Effects of cation concentration on photocatalytic performance over magnesium vanadates. *APL Materials*, **2015**, 3, 104405	5.7	5
104	Solid-state 93Nb NMR Study of Nitrogen-doped Lamellar Niobic Acid. *Chemistry Letters*, **2013**, 42, 1223-1224	1.7	5
103	Photoassisted fabrication of zinc indium oxide/oxysulfide composite for enhanced photocatalytic H evolution under visible-light irradiation. *Science and Technology of Advanced Materials*, **2012**, 13, 055001	7.1	5
102	Photocatalytic properties of MIn(WO4)2 (M = Li, Na, and K). *Journal of Materials Research*, **2007**, 22, 958-964	2.5	5
101	Sol-gel synthesis and characterization of the photocatalyst BaCo1/3Nb2/3O3. *Journal of Materials Science*, **2006**, 41, 1131-1135	4.3	5
100	Decomposition of acetaldehyde on a Bi-based semiconductor. *Research on Chemical Intermediates*, **2005**, 31, 499-503	2.8	5
99	Superconducting and non-superconducting PrBa2Cu3O7. *Bulletin of Materials Science*, **1999**, 22, 257-263	1.7	5
98	Synthesis of Perovskite Type-RERh3Bx (RE= La, Lu) Compounds and Study on Their Boron Nonstoichiometry and Hardness.. *Journal of the Ceramic Society of Japan*, **2000**, 108, 683-686		5
97	Cl modification for effective promotion of photoelectrochemical water oxidation over BiVO. *Chemical Communications*, **2020**, 56, 13153-13156	5.8	5

96	Hierarchically Assembling CoFe Prussian Blue Analogue Nanocubes on CoP Nanosheets as Highly Efficient Electrocatalysts for Overall Water Splitting.. *Small Methods*, **2021**, 5, e2100125	12.8	5
95	Simultaneous determination of Ltx and Ltxd in cured meat products by LC/MS/MS. *Food Chemistry*, **2016**, 210, 338-43	8.5	5
94	CO tolerance of Pt/FeO catalyst in both thermal catalytic H oxidation and electrochemical CO oxidation: the effect of Pt deficit electron state. *Physical Chemistry Chemical Physics*, **2016**, 18, 29607-29615	3.6	5
93	Tridecaboron diphosphide: a new infrared light active photocatalyst for efficient CO2 photoreduction under mild reaction conditions. *Journal of Materials Chemistry A*, **2021**, 9, 2421-2428	13	5
92	Ambient sunlight-driven photothermal methanol dehydrogenation for syngas production with 32.9 % solar-to-hydrogen conversion efficiency. *IScience*, **2021**, 24, 102056	6.1	5
91	Cost-Efficient Photovoltaic-Water Electrolysis over Ultrathin Nanosheets of Cobalt/Iron-Molybdenum Oxides for Potential Large-Scale Hydrogen Production. *Small*, **2021**, 17, e2102222	11	5
90	Hydrated electrons mediated in-situ construction of cubic phase CdS/Cd thin layer on a millimeter-scale support for photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2022**, 607, 769-781	9.3	5
89	Plasmon-Enhanced CO Selective Oxidation in H2 over Pt Nanoclusters Supported on Metallic Molybdenum Dioxide Nanocrystals. *Advanced Materials Interfaces*, **2020**, 7, 2001657	4.6	5
88	Hematite photo-electrodes with multiple ultrathin SiOx interlayers towards enhanced photoelectrochemical properties. *Electrochemistry Communications*, **2014**, 48, 17-20	5.1	4
87	A Visible-light-responsive Photocatalyst of Nitrogen-doped Solid-acid HNb3O8-N Studied by Ultrahigh-field 1H MAS NMR and 1H{93Nb}/1H{15N} HETCOR NMR in Solids. *Chemistry Letters*, **2014**, 43, 80-82	1.7	4
86	Hybridization of sugar alcohols into brucite interlayers via a melt intercalation process. *Journal of Colloid and Interface Science*, **2012**, 368, 578-83	9.3	4
85	Photocatalysis and Photoelectrochemistry for Solar Fuels. *International Journal of Photoenergy*, **2014**, 2014, 1-2	2.1	4
84	Response to comment on "High-active anatase TiO2 nanosheets exposed with 95% {100} facets toward efficient H2 evolution and CO2 photoreduction". *ACS Applied Materials & Interfaces*, **2013**, 5, 8262	9.5	4
83	Low temperature synthesis and visible light driven photocatalytic activity of highly crystalline mesoporous TiO2 particles. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 8124-9	1.3	4
82	Solid Solution Range of Boron, Microhardness and Magnetic Properties of the Perovskite-Type GdRh3B Obtained by Arc-melting Synthesis. *Japanese Journal of Applied Physics*, **1997**, 36, L1436-L1439	1.4	4
81	Arc-melting synthesis and crystal chemistry of RT2B2(C) (R=rare earth, T=Rh, Co) compounds. *Journal of Alloys and Compounds*, **1998**, 275-277, 76-80	5.7	4
80	Pressure-induced Magnetic Transition in the Van Vleck Paramagnet PrCu2. *Journal of the Physical Society of Japan*, **2003**, 72, 1758-1762	1.5	4
79	Structural characterization and photocatalytic behavior of □KInW2O8. *Research on Chemical Intermediates*, **2005**, 31, 505-512	2.8	4

78	Growth, photophysical and structural properties of Bi2InNbO7. *Journal of Crystal Growth*, **2001**, 229, 462-466	1.6	4
77	Solid solution range of boron and properties of the perovskite-type NdRh3B. *Journal of Alloys and Compounds*, **2002**, 335, 191-195	5.7	4
76	Solar Light-induced Injection of Hot Electrons and Photocarriers for Synergistically Enhanced Photothermocatalysis Over Cu-Co/SrTiO3 Catalyst Towards Boosting CO Hydrogenation Into C2□4 Hydrocarbons. *Applied Catalysis B: Environmental*, **2022**, 121063	21.8	4
75	Coke and sintering resistant nickel atomically doped with ceria nanosheets for highly efficient solar driven hydrogen production from bioethanol. *Green Chemistry*,	10	4
74	Engineering interfacial charge transfer channel for efficient photocatalytic H2 evolution: the interplay of CoPx and Ca2+ dopant. *Applied Catalysis B: Environmental*, **2021**, 120887	21.8	4
73	Single atom site conjugated copper polyphthalocyanine assisted carbon nanotubes as cathode for reversible Li-CO2 batteries. *Nano Research*,1	10	4
72	Wafer-scale Si nanoconed arrays induced syngas in the photoelectrochemical CO2 reduction. *Catalysis Today*, **2020**, 339, 321-327	5.3	4
71	Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO2 Reduction System with Solar-to-Fuel Efficiency of 11.3%. *Solar Rrl*, **2020**, 4, 2000116	7.1	4
70	Efficient photodegradation of 2-chloro-4-nitrophenol over Fe-doped BiOCl nanosheets with oxygen vacancy. *Catalysis Science and Technology*,	5.5	4
69	A Promising Application of Optical Hexagonal TaN in Photocatalytic Reactions. *Angewandte Chemie* , **2018**, 130, 17023-17026	3.6	4
68	Photo-thermal CO2 reduction with methane on group VIII metals: In situ reduced WO3 support for enhanced catalytic activity. *Chinese Journal of Catalysis*, **2021**, 42, 1976-1982	11.3	4
67	Photothermal Catalysis: Targeting Activation of CO2 and H2 over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO2 Methanation in Flow-Type System (Adv. Energy Mater. 5/2017). *Advanced Energy Materials*, **2017**, 7,	21.8	3
66	Efficient photochemical oxygen generation from water by phosphorus-doped H2MoO5. *Chemical Communications*, **2014**, 50, 12185-8	5.8	3
65	Adsorption and Photodegradation Reactions of Anionic Dye on Zn-Al-substituting Layered Double Hydroxide. *Transactions of the Materials Research Society of Japan*, **2010**, 35, 813-816	0.2	3
64	Synthesis and Properties of In2-xZnxCu2O5 (x = 0, 1) Compounds. *Journal of Materials Science Letters*, **1998**, 17, 1191-1193		3
63	Chemical state and properties of the Nb5Sn2Ga grown by the self-component flux method using tin as a solvent. *Journal of Alloys and Compounds*, **1998**, 281, 196-201	5.7	3
62	Hardness and Oxidation Resistance of Perovskite-type Solid Solution of the ScRh3B□ScRh3C System. *Japanese Journal of Applied Physics*, **2003**, 42, 5213-5214	1.4	3
61	Substitution Effects of the Trivalent Cations M3+ on the Photophysical and Photocatalytic Properties of In12NiM2Ti10O42 (M = Al, Cr, Ga). *Materials Transactions*, **2005**, 46, 2699-2703	1.3	3

60	Photocatalytic activity of silver-loaded or unloaded titanium dioxide coating in the removal of hydrogen sulfide. *Research on Chemical Intermediates*, **2005**, 31, 441-448	2.8	3
59	Crystal structure in PrBa2Cu4O8 single crystals. *Journal of Physics and Chemistry of Solids*, **2001**, 62, 191-194	3.9	3
58	Crystal growth and structural properties of RRh3B2 (R=Gd, Er, Tm) compounds. *Journal of Crystal Growth*, **2001**, 229, 521-526	1.6	3
57	Possible origins of superconductivity in TSFZ-grown PrBa2Cu3Ox crystals. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 525-526	1.3	3
56	Optical and electrical properties of solid photocatalyst Bi2InNbO7. *Journal of Materials Research*, **2000**, 15, 2073-2075	2.5	3
55	Preparation and magnetic properties of In2 xZnxCu2O5 (x = 0 1.4) solid solution. *Journal of Materials Science Letters*, **1999**, 18, 1387-1390		3
54	Possible origins of superconductivity in PrBa2Cu3Ox compound viewed from results of single crystal structure study. *Journal of Alloys and Compounds*, **1999**, 288, 319-325	5.7	3
53	Recent Progress on Exploring Stable Metal Organic Frameworks for Photocatalytic Solar Fuel Production. *Solar Rrl*, **2020**, 4, 2070084	7.1	3
52	Interfacial-Bonding TiN Boosts Efficient Photocatalytic H2 Evolution in Close Coupling g-C3N4/TiO2. *Journal of Physical Chemistry C*, **2021**, 125, 12012-12018	3.8	3
51	Study on the enhancement of photocatalytic environment purification through ubiquitous-red-clay loading. *SN Applied Sciences*, **2019**, 1, 1	1.8	3
50	Breaking Platinum Nanoparticles to Single-Atomic Pt-C4 Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. *Angewandte Chemie*, **2021**, 133, 2571-2577	3.6	3
49	A surface-alkalinized Ti3C2 MXene as an efficient cocatalyst for enhanced photocatalytic CO2 reduction over ZnO. *Catalysis Science and Technology*, **2021**, 11, 4953-4961	5.5	3
48	Selective Photothermal Reduction of CO2 to CO over Ni-Nanoparticle/N-Doped CeO2 Nanocomposite Catalysts. *ACS Applied Nano Materials*,	5.6	3
47	Insights into the Operation of Noble-Metal-Free Cocatalyst 1T-WS -Decorated Zn Cd S for Enhanced Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2021**, 14, 4752-4763	8.3	3
46	Photocatalysis: Light-Switchable Oxygen Vacancies in Ultrafine Bi5O7Br Nanotubes for Boosting Solar-Driven Nitrogen Fixation in Pure Water (Adv. Mater. 31/2017). *Advanced Materials*, **2017**, 29,	24	2
45	Visualizing the photovoltaic behavior of a type-II p-n heterojunction superstructure. *Applied Physics Letters*, **2014**, 104, 163105	3.4	2
44	High-Temperature Solution Growth and Characterization of Chromium Disilicide. *Japanese Journal of Applied Physics*, **2003**, 42, 7292-7293	1.4	2
43	29 Effect of 3d transition-metal (M) doping in In1-xMx TaO4 photocatalysts on water splitting under visible light irradiation. *Studies in Surface Science and Catalysis*, **2003**, 145, 165-168	1.8	2

42	Single Crystalline MgB2Superconductor. *Journal of the Physical Society of Japan*, **2002**, 71, 320-322	1.5	2
41	Doping effects in electrical and magnetic properties of Ba2SrxLayCu3O4Cl2 (x=0~2.0, y=0~0.4) compounds. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 489-490	1.3	2
40	Relationship between Boron Content and Hardness and Oxidation Resistance of the Nonstoichiometric Perovskite Type-ScRh3Bx Compound.. *Journal of the Ceramic Society of Japan*, **1999**, 107, 546-550		2
39	Precisely Tailoring Nitrogen Defects in Carbon Nitride for Efficient Photocatalytic Overall Water Splitting.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	2
38	Efficient electrochemical water oxidation to hydrogen peroxide over intrinsic carbon defect-rich carbon nanofibers. *Journal of Materials Chemistry A*,	13	2
37	Zr-Al co-doped SrTiO with suppressed charge recombination for efficient photocatalytic overall water splitting. *Chemical Communications*, **2021**, 57, 10640-10643	5.8	2
36	SnO2/Sb2O3 composites synthesized by mechanical milling method with excellent photocatalytic properties for isopropyl alcohol oxidation. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8564-8577	2.1	1
35	Innentitelbild: Photothermal Conversion of CO2 into CH4 with H2 over Group VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production (Angew. Chem. 43/2014). *Angewandte Chemie*, **2014**, 126, 11568-11568	3.6	1
34	Photodriven CO2 Reduction Assisted by Surface Plasmon Resonance of Nanometals. *Hyomen Kagaku*, **2017**, 38, 280-285		1
33	Crystal structure of silver metagermanate, Ag2GeO3. *Powder Diffraction*, **2010**, 25, 15-18	1.8	1
32	Green-Chemical Synthesis of ETS-4 Zeotypes for Photocatalytic Hydrogen Production. *Advanced Materials Research*, **2012**, 584, 366-370	0.5	1
31	Two-Dimensional Clustering of Nanoparticles on the Surface of Cellulose Fibers. *Journal of Physical Chemistry C*, **2009**, 113, 12022-12027	3.8	1
30	Photophysical and Photocatalytic Properties of AgInW2O8.. *ChemInform*, **2004**, 35, no		1
29	Photophysical and Photocatalytic Properties of a New Series of Visible-Light-Driven Photocatalysts M3V2O8 (M: Mg, Ni, Zn).. *ChemInform*, **2005**, 36, no		1
28	The physical properties of the new quaternary borocarbides RRh2B2C (R=Gd, Sm and Nd). *Physica B: Condensed Matter*, **2000**, 293, 91-97	2.8	1
27	Characterization of Superconducting PrBa2Cu3Ox. *International Journal of Modern Physics B*, **1998**, 12, 3242-3250	1.1	1
26	Changing of the Lattice Parameter with Boron or Carbon Content x in Nonstoichiometric Perovskite-Type YRh3Bx, YRh3Cx and YRh3BxC1-x Compounds.. *Journal of the Ceramic Society of Japan*, **1999**, 107, 648-651		1
25	Synthesis and the Physical Properties of the Single Crystals of a New Quaternary Compound ErRh2B2C Using Molten Copper as a Flux. *Journal of the Ceramic Society of Japan*, **1996**, 104, 1117-1120		1

24	Defects in YBa2Cu3O7□Thin Films and Their Influences on Tc. *Materials Research Society Symposia Proceedings*, **1995**, 401, 429		1
23	Artificial Photosynthesis: Fundamentals, Challenges, and Strategies. *NIMS Monographs*, **2022**, 233-263	0.3	1
22	Plasmonic Metal Nanoparticles for Artificial Photosynthesis: Advancements, Mechanisms, and Perspectives. *Solar Rrl*, **2021**, 5, 2100611	7.1	1
21	Synergy between Confined Cobalt Centers and Oxygen Defects on □Fe2O3 Platelets for Efficient Photocatalytic CO2 Reduction. *Solar Rrl*, **2022**, 6, 2100833	7.1	1
20	Structural Differences of Superconducting and Non-Superconducting PrBa2Cu3Ox Crystals **1998**, 215-218		1
19	Photocarrier-assisted photothermocatalysis of Fischer□Tropsch synthesis for the enhanced yield of C2□4 hydrocarbons over a Co/SrTiO3 catalyst. *Catalysis Science and Technology*,	5.5	1
18	Efficient Photocatalytic Conversion of Methane into Ethanol over P-Doped g-C3N4 under Ambient Conditions. *Energy & Fuels*, **2022**, 36, 3929-3937	4.1	1
17	Photothermal tandem catalysis for CO2 hydrogenation to methanol. *CheM*, **2022**, 8, 1181-1183	16.2	1
16	Structural and Componential Engineering of CoP&CoP@N-C Nanoarrays for Energy-Efficient Hydrogen Production from Water Electrolysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 56064-56072	9.5	0
15	A synergetic strategy to construct anti-reflective and anti-corrosive Co-P/WSx/Si photocathode for durable hydrogen evolution in alkaline condition. *Applied Catalysis B: Environmental*, **2021**, 120954	21.8	0
14	Non-stoichiometric Ag-In-S quantum dots for efficient photocatalytic CO2 reduction: Ag/In molar ratio dependent activity and selectivity. *Journal of Catalysis*, **2021**, 401, 271-278	7.3	0
13	R□ktitelbild: Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (Angew. Chem. 20/2017). *Angewandte Chemie*, **2017**, 129, 5724-5724	3.6	
12	Stressed Lattice Creating New Electric Field for Photoelectrocatalysis. *Chemical Research in Chinese Universities*, **2020**, 36, 725-726	2.2	
11	Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO2 Reduction System with Solar-to-Fuel Efficiency of 11.3%. *Solar Rrl*, **2020**, 4, 2070072	7.1	
10	Preface for Special Topic: Photocatalysis. *APL Materials*, **2015**, 3, 103801	5.7	
9	The Dynamics of Water Molecules on YVO4 Photo-Catalyst Surface. *Ceramic Transactions*, **2010**, 237-241	0.1	
8	Electronic Structure Properties of the Photo-Catalysts YVO4 and InVO4 Slab Systems with Water Molecules Adsorbed on the Surfaces. *Materials Research Society Symposia Proceedings*, **2009**, 1171, 96		
7	A study of superconducting crystals by diffuse scattering measurement. *Journal of Physics Condensed Matter*, **1997**, 9, 2585-2592	1.8	

6	Hardness and Oxidation Resistance of Nonstoichiometric ErRh3Bx-Perovskite.. *Journal of the Ceramic Society of Japan*, **2000**, 108, 1011-1015	
5	Pressure Effects on Oxygen Deficient Superconducting PrBa2Cu3Ox. *International Journal of Modern Physics B*, **1998**, 12, 3235-3241	1.1
4	Synthesis of the GdCo2B2Cx (x=0-1) and Study on the Changing of the Crystal Structure with Carbon Content, x. *Journal of the Ceramic Society of Japan*, **1998**, 106, 299-302	
3	Substitution Effects of Ba by Sr and La in Physical and Structural Properties of Ba2Cu3O4Cl2 Compounds **2000**, 113-115	
2	Efficient Methanol-to-Olefins Conversion Via Photothermal Effect Over TiN/SAPO-34 Catalyst. *Catalysis Letters*,1	2.8
1	PbS1−xSex-Quantum-Dot@MWCNT/P3HT Nanocomposites with Tunable Photoelectric Conversion Performance. *Inorganics*, **2021**, 9, 87	2.9