

# CITATION REPORT

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## Efficient solar water-splitting using a nanocrystalline CoO photocatalyst

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700	CoreShell MoS <sub>2</sub> @CoO Electrocatalyst for Water Splitting in Neutral and Alkaline Solutions.		
699	Multiwavelength-Steerable Visible-Light-Driven Magnetic CoOTiO <sub>2</sub> Microswimmers.		
698	Hybrid Cu <sub>x</sub> O/TiO <sub>2</sub> Nanopowders Prepared by Ball Milling for Solar Energy Conversion and Visible-Light-Induced Wastewater Treatment.		
697	Increasing Effectiveness of Photogenerated Carriers by in Situ Anchoring of Cu <sub>2</sub> O Nanoparticles on a Nitrogen-Doped Porous Carbon YolkShell Cuboctahedral Framework.		
696	Synthesis and Characterizations of Cobalt Films Electrochemically Deposited from Aqueous and Non-Aqueous Media. <b>2014</b> , 64, 487-491		1
695	Cobalt-containing layered or zeolitic silicates as photocatalysts for hydrogen generation. <b>2014</b> , 50, 14643-6		12
694	Visible-light-driven water oxidation with nanoscale Co(3)O(4) : new optimization strategies. <b>2014</b> , 9, 2249-59		26
693	Comparison of photoelectrochemical water oxidation activity of a synthetic photocatalyst system with photosystem II. <b>2014</b> , 176, 199-211		16
692	Nano-sized quaternary CuGa <sub>2</sub> In <sub>3</sub> S <sub>8</sub> as an efficient photocatalyst for solar hydrogen production. <i>ChemSusChem</i> , <b>2014</b> , 7, 3112-21	8.3	16
691	Noble-Metal-Free Ni(OH) <sub>2</sub> -Modified CdS/Reduced Graphene Oxide Nanocomposite with Enhanced Photocatalytic Activity for Hydrogen Production under Visible Light Irradiation. <b>2014</b> , 118, 22896-22903		126
690	Ultrathin Ti-doped hematite photoanode by pyrolysis of ferrocene. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 14596-14603	6.7	20
689	Synthesis of hierarchical mushroom-like cobalt nanostructures based on one-step galvanostatic electrochemical deposition. <b>2014</b> , 16, 8015		7
688	Doping indium in Bi <sub>2</sub> O <sub>3</sub> to tune the electronic structure and improve the photocatalytic activities: first-principles calculations and experimental investigation. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 23476-82	3.6	34
687	A facile route for the synthesis of nanostructured oxides and hydroxides of cobalt using laser ablation synthesis in solution (LASIS). <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 24034-44	3.6	37
686	Efficient CoO nanowire array photocatalysts for H <sub>2</sub> generation. <b>2014</b> , 105, 153903		18
685	A multiwalled carbon nanotube/tetra- $\beta$ -isoheptyloxyphthalocyanine cobalt(ii) composite with high dispersibility for electrochemical detection of ascorbic acid. <b>2014</b> , 2, 4876-4882		25
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682	Structure-property relationship of bifunctional MnO <sub>2</sub> nanostructures: highly efficient, ultra-stable electrochemical water oxidation and oxygen reduction reaction catalysts identified in alkaline media. <b>2014</b> , 136, 11452-64		757
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553	Dye functionalized carbon nanotubes for photoelectrochemical water splitting ¶role of inner tubes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2473-2483	13	23
552	Artificial photosynthesis using metal/nonmetal-nitride semiconductors: current status, prospects, and challenges. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2801-2820	13	95
551	A silver-inserted zinc rhodium oxide and bismuth vanadium oxide heterojunction photocatalyst for overall pure-water splitting under red light. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3061-3067	13	28
550	Self-organized nano-structuring of CoO islands on Fe(001). <b>2016</b> , 362, 374-379		11
549	High visible-light photochemical activity of titania decorated on single-wall carbon nanotube aerogels. <b>2016</b> , 6, 22285-22294		30
548	Continuously Controlled Optical Band Gap in Oxide Semiconductor Thin Films. <b>2016</b> , 16, 1782-6		29
547	Identification of Cobalt Oxides with Raman Scattering and Fourier Transform Infrared Spectroscopy. <b>2016</b> , 120, 4511-4516		143
546	The photocatalytic properties of ultrathin bismuth oxychloride nanosheets: a first principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7261-8	3.6	31
545	A simple method for preparing ZnO foam/carbon quantum dots nanocomposite and their photocatalytic applications. <b>2016</b> , 47, 25-31		49
544	In situ surface X-ray diffraction study of ultrathin epitaxial Co films on Au(111) in alkaline solution. <b>2016</b> , 197, 273-281		12
543	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1. <b>2016</b> , 15, 611-5		979
542	Efficient Visible Light Photocatalytic CO <sub>2</sub> Reforming of CH <sub>4</sub> . <i>ACS Catalysis</i> , <b>2016</b> , 6, 494-497	13.1	163
541	Tandem laser ablation synthesis in solution-galvanic replacement reaction (LASIS-GRR) for the production of PtCo nanoalloys as oxygen reduction electrocatalysts. <b>2016</b> , 306, 413-423		52
540	Metallic Co <sub>2</sub> P ultrathin nanowires distinguished from CoP as robust electrocatalysts for overall water-splitting. <b>2016</b> , 18, 1459-1464		199

539	Neutral nickel(II) phthalocyanine as a stable catalyst for visible-light-driven hydrogen evolution from water. <i>Dalton Transactions</i> , <b>2016</b> , 45, 1359-63	4.3	23
538	Cu <sub>2</sub> O clusters grown on TiO <sub>2</sub> nanoplates as efficient photocatalysts for hydrogen generation. <b>2016</b> , 3, 488-493		48
537	Chemical vapor deposition of low reflective cobalt (II) oxide films. <b>2016</b> , 360, 540-546		12
536	A cocatalyst-free CdS nanorod/ZnS nanoparticle composite for high-performance visible-light-driven hydrogen production from water. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 675-683	13	169
535	A new oxynitride-based solid state Z-scheme photocatalytic system for efficient Cr(VI) reduction and water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 183, 176-184	21.8	30
534	Tuning the Cu <sub>x</sub> O nanorod composition for efficient visible light induced photocatalysis. <b>2016</b> , 6, 2228-2238		49
533	PtCo/CoO <sub>x</sub> nanocomposites: Bifunctional electrocatalysts for oxygen reduction and evolution reactions synthesized via tandem laser ablation synthesis in solution-galvanic replacement reactions. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 182, 286-296	21.8	78
532	The efficiency of a novel bioreactor employing bacteria and chitosan-coated magnetic nanoparticles. <b>2016</b> , 59, 113-119		16
531	Synthesis, characterization and visible light photocatalytic activity of metal based TiO <sub>2</sub> monoliths for CO <sub>2</sub> reduction. <b>2016</b> , 283, 1244-1253		50
530	Effects of La-doping on charge separation behavior of ZnO:GaN for its enhanced photocatalytic performance. <b>2016</b> , 6, 1033-1041		11
529	Environmentally effective photocatalyst CoO/TiO <sub>2</sub> synthesized by thermal precipitation of Co in amorphous TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 182, 449-455	21.8	53
528	Visible-light-sensitive two-step overall water-splitting based on band structure control of titanium dioxide. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 1-5	21.8	29
527	Graphitic carbon nitride nanosheet for photocatalytic hydrogen production: The impact of morphology and element composition. <b>2017</b> , 391, 369-375		74
526	High-performance 1D type-II TiO <sub>2</sub> @ZnO core-shell nanorods arrays photoanodes for photoelectrochemical solar fuel production. <b>2017</b> , 403, 126-132		34
525	CuNi Nanoparticles Assembled on Graphene for Catalytic Methanolysis of Ammonia Borane and Hydrogenation of Nitro/Nitrile Compounds. <b>2017</b> , 29, 1413-1418		115
524	The recent development of efficient Earth-abundant transition-metal nanocatalysts. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 816-854	58.5	351
523	Synthesis of a nano-sized hybrid C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> sample for enhanced and steady solar energy absorption and utilization. <b>2017</b> , 1, 95-102		18
522	Effects of redox mediators on Fe <sub>2</sub> O <sub>3</sub> exposed by {012} and {104} facets for photocatalytic water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 206, 216-220	21.8	41

521	Ultralight, Flexible, and Semi-Transparent Metal Oxide Papers for Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3922-3930	9.5	15
520	Edge reactivity and water-assisted dissociation on cobalt oxide nanoislands. <b>2017</b> , 8, 14169		89
519	Nano-Photoelectrochemical Cell Arrays with Spatially Isolated Oxidation and Reduction Channels. <b>2017</b> , 11, 2150-2159		16
518	Facile Preparation of Ultrathin Co O /Nanocarbon Composites with Greatly Improved Surface Activity as a Highly Efficient Oxygen Evolution Reaction Catalyst. <b>2017</b> , 23, 4010-4016		41
517	Evidence of interface exchange magnetism in self-assembled cobalt-fullerene nanocomposites exposed to air. <b>2017</b> , 28, 125704		6
516	Ultrathin g-C3N4 nanosheets with an extended visible-light-responsive range for significant enhancement of photocatalysis. <b>2017</b> , 7, 2333-2341		86
515	Solar-to-chemical and solar-to-fuel production from CO by metabolically engineered microorganisms. <b>2017</b> , 45, 1-7		55
514	Thermally Converted CoO Nanoparticles Embedded into N-Doped Carbon Layers as Highly Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Oxygen Evolution Reactions. <b>2017</b> , 9, 1503-1510		27
513	Enhanced photoelectrochemical properties of Ta-TiO 2 nanotube arrays prepared by magnetron sputtering. <b>2017</b> , 138, 30-38		12
512	Reliable Performance Characterization of Mediated Photocatalytic Water-Splitting Half Reactions. <i>ChemSusChem</i> , <b>2017</b> , 10, 2158-2166	8.3	6
511	Phytic acid-derivative transition metal phosphides encapsulated in N,P-codoped carbon: an efficient and durable hydrogen evolution electrocatalyst in a wide pH range. <i>Nanoscale</i> , <b>2017</b> , 9, 3555-3560		158
510	External field-assisted laser ablation in liquid: An efficient strategy for nanocrystal synthesis and nanostructure assembly. <b>2017</b> , 87, 140-220		209
509	Cobalt nitride as an efficient cocatalyst on CdS nanorods for enhanced photocatalytic hydrogen production in water. <b>2017</b> , 7, 1515-1522		53
508	Water-Based Photo- and Electron-Beam Lithography Using Egg White as a Resist. <b>2017</b> , 4, 1601223		15
507	A facile corrosion approach to the synthesis of highly active CoOx water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5171-5177	13	69
506	A facile one-step strategy for in-situ fabrication of WO3-BiVO4 nanoarrays for solar-driven photoelectrochemical water splitting applications. <b>2017</b> , 144, 604-611		33
505	Laser Synthesis and Processing of Colloids: Fundamentals and Applications. <b>2017</b> , 117, 3990-4103		684
504	Graphitic-CN nanosheets: synergistic effects of hydrogenation and n/n junctions for enhanced photocatalytic activities. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10641-10649	4.3	43

503	Wafer-scale synthesis of ultrathin CoO nanosheets with enhanced electrochemical catalytic properties. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9060-9066	13	20
502	Effect of cobalt on the electrochromic properties of NiO films deposited by spray pyrolysis. <b>2017</b> , 123, 1		3
501	The Structural Fate of Individual Multicomponent Metal-Oxide Nanoparticles in Polymer Nanoreactors. <b>2017</b> , 129, 7733-7737		3
500	The Structural Fate of Individual Multicomponent Metal-Oxide Nanoparticles in Polymer Nanoreactors. <b>2017</b> , 56, 7625-7629		14
499	Enhanced Solar-to-Hydrogen Generation with Broadband Epsilon-Near-Zero Nanostructured Photocatalysts. <b>2017</b> , 29, 1701165		29
498	Thin-Layered Cobalt-Based Catalysts on Stainless-Steel Microfibers for the Efficient Electrolysis of Water. <b>2017</b> , 9, 3814-3820		3
497	Freestanding nano-photoelectrode as a highly efficient and visible-light-driven photocatalyst for water-splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10651-10657	13	8
496	Preparation of g-C <sub>3</sub> N <sub>4</sub> nanorod/InVO <sub>4</sub> hollow sphere composite with enhanced visible-light photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 213, 127-135	21.8	51
495	CoO-Co <sub>3</sub> O <sub>4</sub> heterostructure nanoribbon/RGO sandwich-like composites as anode materials for high performance lithium-ion batteries. <b>2017</b> , 241, 252-260		53
494	Promising cobalt oxide and cobalt oxide/silver photocathodes for photoelectrochemical water splitting. <b>2017</b> , 161, 46-51		21
493	Novel quantum dot and nano-sheet TiO <sub>2</sub> (B) composite for enhanced photocatalytic H <sub>2</sub> Production without Co-Catalyst. <b>2017</b> , 360, 353-359		22
492	Monolithic Photoassisted Water Splitting Device Using Anodized Ni-Fe Oxygen Evolution Catalytic Substrate. <b>2017</b> , 7, 1700659		22
491	Hydrothermal synthesis of Co <sub>3</sub> O <sub>4</sub> nanosheets and its application in photoelectrochemical water splitting. <b>2017</b> , 204, 1105-1112		5
490	Recent Advances in Surfactant-Free, Surface-Charged, and Defect-Rich Catalysts Developed by Laser Ablation and Processing in Liquids. <b>2017</b> , 3, 512-533		74
489	New Insight of Water-Splitting Photocatalyst: HO-Resistance Poisoning and Photothermal Deactivation in Sub-micrometer CoO Octahedrons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20585-20593	9.5	39
488	Nanostructured Materials for Next-Generation Energy Storage and Conversion. <b>2017</b> ,		4
487	Polymeric carbon nitride for solar hydrogen production. <b>2017</b> , 53, 7438-7446		37
486	Improving the Performance of Hybrid Functional-Based Molecular Dynamics Simulation through Screening of Hartree-Fock Exchange Forces. <b>2017</b> , 13, 2178-2184		7

485	Novel g-CN/CoO Nanocomposites with Significantly Enhanced Visible-Light Photocatalytic Activity for H <sub>2</sub> Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12427-12435	9.5	212
484	Observation and the Origin of Magic Compositions of ConO <sub>n</sub> Formed in Oxidation of Cobalt Cluster Anions. <b>2017</b> , 121, 10957-10963		7
483	Non-native transition metal monoxide nanostructures: unique physicochemical properties and phase transformations of CoO, MnO and ZnO. <b>2017</b> , 9, e364-e364		23
482	ALD for Photoelectrochemical Water Splitting. <b>2017</b> , 225-257		1
481	Large-scale hierarchical oxide nanostructures for high-performance electrocatalytic water splitting. <b>2017</b> , 35, 207-214		74
480	Active sites engineering leads to exceptional ORR and OER bifunctionality in P,N Co-doped graphene frameworks. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1186-1195	35.4	310
479	Femtosecond pulsed laser ablation in microfluidics for synthesis of photoluminescent ZnSe quantum dots. <b>2017</b> , 414, 205-211		8
478	Oxygen Vacancies in Shape Controlled CuO/Reduced Graphene Oxide/InO Hybrid for Promoted Photocatalytic Water Oxidation and Degradation of Environmental Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11678-11688	9.5	101
477	Titanium dioxide nanomaterials for photocatalysis. <b>2017</b> , 50, 193003		23
476	Silver-inserted heterojunction photocatalyst consisting of zinc rhodium oxide and silver antimony oxide for overall pure-water splitting under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 663-668	21.8	15
475	Semiconductor, molecular and hybrid systems for photoelectrochemical solar fuel production. <b>2017</b> , 26, 219-240		37
474	Significant improvement in MnO transition metal oxide electrical conductivity via high pressure. <b>2017</b> , 7, 44078		26
473	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. <b>2017</b> , 29, 1604607		194
472	The crystalline/amorphous contact in Cu <sub>2</sub> O/Ta <sub>2</sub> O <sub>5</sub> heterostructures: increasing its sunlight-driven overall water splitting efficiency. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2732-2738	13	30
471	Bi <sub>2</sub> Ga <sub>4</sub> O <sub>9</sub> : An undoped single-phase photocatalyst for overall water splitting under visible light. <b>2017</b> , 345, 236-244		48
470	Embedded Ag quantum dots into interconnected Co <sub>3</sub> O <sub>4</sub> nanosheets grown on 3D graphene networks for high stable and flexible supercapacitors. <b>2017</b> , 224, 260-268		74
469	Ultrafine Co-based Nanoparticle@Mesoporous Carbon Nanospheres toward High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1746-1758	9.5	56
468	Designed C <sub>3</sub> N <sub>4</sub> /CdS@WO <sub>4</sub> core-shell heterostructure with excellent photocatalytic activity. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1028-1036	3.6	14



467	Gold-supported two-dimensional cobalt oxyhydroxide (CoOOH) and multilayer cobalt oxide islands. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 2425-2433	3.6	27
466	A robust and efficient catalyst of CdZnSe motivated by CoP for photocatalytic hydrogen evolution under sunlight irradiation. <b>2017</b> , 53, 897-900		88
465	Engineered cost-effective growth of Co-based nanoflakes as a sustainable water oxidation electrocatalyst. <b>2017</b> , 50, 475501		3
464	Semiconducting Metal Oxide Nanostructures for Water Splitting and Photovoltaics. <b>2017</b> , 7, 1700706		82
463	3D hierarchical porous cobalt monoxide nanoplates with a book-like structure derived from $\text{Co}(\text{CO}_3)_0.5(\text{OH}) \cdot 1.1\text{H}_2\text{O}$ : two-steps oriented attachment and high-performance asymmetric supercapacitors. <b>2017</b> , 4, 106303		2
462	Low temperature dynamics of surface and bulk electronic structure of quantum dots. <b>2017</b> , 4, 094001		
461	Carbon dots anchored on octahedral CoO as a stable visible-light-responsive composite photocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19800-19807	13	74
460	Syntheses of Exceptionally Stable Aluminum(III) Metal-Organic Frameworks: How to Grow High-Quality, Large, Single Crystals. <b>2017</b> , 23, 15518-15528		38
459	One-step synthesis of CoO/g-C <sub>3</sub> N <sub>4</sub> composites by thermal decomposition for overall water splitting without sacrificial reagents. <b>2017</b> , 4, 1691-1696		41
458	Cubic-phase zirconia nano-island growth using atomic layer deposition and application in low-power charge-trapping nonvolatile-memory devices. <b>2017</b> , 28, 445201		15
457	Thermodynamically driven oxidation-induced Kirkendall effect in octahedron-shaped cobalt oxide nanocrystals. <b>2017</b> , 19, 5542-5548		5
456	Constructing noble-metal-free Z-scheme photocatalytic overall water splitting systems using MoS <sub>2</sub> nanosheet modified CdS as a H <sub>2</sub> evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21205-21213	13	79
455	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. <b>2017</b> , 40, 673-680		71
454	Current progress and challenges in engineering viable artificial leaf for solar water splitting. <b>2017</b> , 2, 399-417		15
453	Exploring the photocatalysis mechanism on insulators. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 450-458	21.8	38
452	Particulate photocatalysts for overall water splitting. <b>2017</b> , 2,		902
451	Atomically dispersed Pt on specific TiO <sub>2</sub> facets for photocatalytic H <sub>2</sub> evolution. <b>2017</b> , 353, 250-255		82
450	Fabrication of 3D hierarchical CoSnO <sub>3</sub> @CoO pine needle-like array photoelectrode for enhanced photoelectrochemical properties. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18664-18673	13	34



449	Spatially selective photochemical activity on surfaces of ferroelastics with local polarization. <b>2017</b> , 32, 103001		5
448	Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <b>2017</b> , 29, 1702428		211
447	Face-to-Face Interfacial Assembly of Ultrathin g-CN and Anatase TiO Nanosheets for Enhanced Solar Photocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 28674-28684	9.5	116
446	Selective Ion Exchange and Photocatalysis by Zeolite-Like Semiconducting Chalcogenide. <b>2017</b> , 23, 11913-11919		13
445	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. <b>2017</b> , 8, 1509		276
444	Self-Assembled 3D Hierarchical Copper Hydroxyphosphate Modified by the Oxidation of Copper Foil as a Recyclable, Wide Wavelength Photocatalyst. <b>2017</b> , 33, 13649-13656		11
443	Integrated Solar Hydrogen Devices: Cell Design and Nanostructured Components in Liquid and Vapor-Phase Water Splitting. <b>2017</b> , 907-938		
442	Wavelength-tunable photoluminescence of ZnSe quantum dot micelles synthesized by femtosecond laser ablation in microfluidics. <b>2017</b> , 684, 409-413		5
441	Facile Formation of Nanodisk-Shaped Orthorhombic SnS Layers from SnS <sub>2</sub> Particles for Photoelectrocatalytic Hydrogen Production. <b>2017</b> , 3, 591-600		15
440	Sulfur-Doped Graphene Oxide Quantum Dots as Photocatalysts for Hydrogen Generation in the Aqueous Phase. <i>ChemSusChem</i> , <b>2017</b> , 10, 3260-3267	8.3	33
439	Carbon dots decorated the exposing high-reactive (111) facets CoO octahedrons with enhanced photocatalytic activity and stability for tetracycline degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 36-44	21.8	73
438	Facile fabrication of a CoO/g-C <sub>3</sub> N <sub>4</sub> p-n heterojunction with enhanced photocatalytic activity and stability for tetracycline degradation under visible light. <b>2017</b> , 7, 3325-3331		150
437	Synthesis of zeolite Beta containing ultra-small CoO particles for ethylbenzene oxidation. <b>2017</b> , 38, 1207-1215		13
436	Metal-complex chromophores for solar hydrogen generation. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 603-638	38.5	239
435	Photochemical water splitting mediated by a C1 shuttle. <i>Dalton Transactions</i> , <b>2016</b> , 46, 49-54	4.3	3
434	The charge transfer mechanism of Bi modified TiO <sub>2</sub> nanotube arrays: TiO <sub>2</sub> serving as a charge-transfer-bridge <b>2017</b> , 31, 96-104		74
433	Localized dielectric breakdown and antireflection coating in metal-oxide-semiconductor photoelectrodes. <b>2017</b> , 16, 127-131		50
432	Heterostructured CoO/3D-TiO <sub>2</sub> nanorod arrays for photoelectrochemical water splitting hydrogen production. <b>2017</b> , 21, 455-461		23

431	Nickel nanoparticles coated with graphene layers as efficient co-catalyst for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 578-584	21.8	59
430	Comparative Analysis of Cobalt Oxide Nanoisland Stability and Edge Structures on Three Related Noble Metal Surfaces: Au(111), Pt(111) and Ag(111). <b>2017</b> , 60, 503-512		19
429	Hydrogen Generation through Solar Photocatalytic Processes: A Review of the Configuration and the Properties of Effective Metal-Based Semiconductor Nanomaterials. <b>2017</b> , 10, 1624		41
428	High Crystal Quality 2D Manganese Phosphorus Trichalcogenide Nanosheets and their Photocatalytic Activity. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800548	15.6	86
427	Characterization of the Platinum-Hydrogen Bond by Surface-Sensitive Time-Resolved Infrared Spectroscopy. <b>2018</b> , 9, 1254-1259		22
426	Constructing a direct Z-scheme La <sub>2</sub> NiO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalyst with boosted visible light photocatalytic activity. <b>2018</b> , 201, 327-335		39
425	Construction of CdS/CoOx core-shell nanorods for efficient photocatalytic H <sub>2</sub> evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 109-116	21.8	90
424	Solar Photochemical Splitting of Water. <b>2018</b> , 365-391		
423	Two-step electrodeposition to fabricate the p-n heterojunction of a CuO/BiVO photoanode for the enhancement of photoelectrochemical water splitting. <i>Dalton Transactions</i> , <b>2018</b> , 47, 6763-6771	4.3	62
422	In-situ La doped Co <sub>3</sub> O <sub>4</sub> as highly efficient photocatalyst for solar hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8674-8682	6.7	45
421	Tuning defects in oxides at room temperature by lithium reduction. <b>2018</b> , 9, 1302		225
420	Photoreduction of carbon dioxide of atmospheric concentration to methane with water over CoAl-layered double hydroxide nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8366-8373	13	59
419	Probing Interfacial Electrochemistry on a Co <sub>3</sub> O <sub>4</sub> Water Oxidation Catalyst Using Lab-Based Ambient Pressure X-ray Photoelectron Spectroscopy. <b>2018</b> , 122, 13894-13901		24
418	Supported black phosphorus nanosheets as hydrogen-evolving photocatalyst achieving 5.4% energy conversion efficiency at 353 K. <b>2018</b> , 9, 1397		144
417	Efficient Unassisted Overall Photocatalytic Seawater Splitting on GaN-Based Nanowire Arrays. <b>2018</b> , 122, 13797-13802		47
416	Co-SBA-15 catalysts in the hydrolysis of NH <sub>3</sub> BH <sub>3</sub> Influences of Co precursors and catalyst pre-treatment. <b>2018</b> , 107, 14-17		6
415	Improved visible-light activities of nanocrystalline CdS by coupling with ultrafine NbN with lattice matching for hydrogen evolution. <b>2018</b> , 2, 549-552		30
414	Colloidal Synthesis of Advanced Functional Nanostructured Composites and Alloys via Laser Ablation-Based Techniques. <b>2018</b> , 135-172		

413	A Novel CoO <sub>1.6</sub> C <sub>0.7</sub> Nanocomposite with Enhanced Photocatalytic Activity and Stability for Hydrogen Evolution Achieved by Carbon Dots. <b>2018</b> , 3, 904-910		7
412	VISIBLE-LIGHT-DRIVEN PHOTOCATALYSIS. <b>2018</b> , 109-173		
411	Hydrothermal Synthesis of Hybrid Rod-Like Hollow CoWO <sub>4</sub> /Co <sub>1-x</sub> S for High-Performance Supercapacitors. <b>2018</b> , 5, 1047-1055		19
410	One-Step Synthesis of Nb O <sub>2</sub> /C/Nb C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. <i>ChemSusChem</i> , <b>2018</b> , 11, 688-699	8.3	223
409	CoO and g-C <sub>3</sub> N <sub>4</sub> complement each other for highly efficient overall water splitting under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 412-420	21.8	125
408	Co <sub>3</sub> O <sub>4</sub> nanosheet arrays treated by defect engineering for enhanced electrocatalytic water oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2009-2017	6.7	33
407	Sub-nanometer CoO clusters anchored on TiO <sub>2</sub> (B) nano-sheets: Pt replaceable Co-catalysts for H <sub>2</sub> evolution. <i>Nanoscale</i> , <b>2018</b> , 10, 2596-2602	7.7	34
406	Hydrogen-interstitial CuWO <sub>4</sub> nanomesh: A single-component full spectrum-active photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 227, 35-43	21.8	31
405	A Carbon Quantum Dots/Porous InVO <sub>4</sub> Microsphere Composite with Enhanced Photocatalytic Activity. <b>2018</b> , 2018, 1080-1086		7
404	Hydrogen Peroxide Production on a Carbon Nitride/Boron Nitride-Reduced Graphene Oxide Hybrid Photocatalyst under Visible Light. <b>2018</b> , 10, 2070-2077		53
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402	Metal-Organic Framework-Derived ZnO/ZnS Heteronanostructures for Efficient Visible-Light-Driven Photocatalytic Hydrogen Production. <b>2018</b> , 5, 1700590		106
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398	Bridge-type interface optimization on a dual-semiconductor heterostructure toward high performance overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7871-7876	13	19
397	Enhanced photodegradation ability of solvothermally synthesized metallic copper coated ZnO microrods. <b>2018</b> , 548, 19-26		13
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395	Facile bottom-up synthesis of partially oxidized black phosphorus nanosheets as metal-free photocatalyst for hydrogen evolution. <b>2018</b> , 115, 4345-4350		142
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393	Microstructure and secondary phases in epitaxial LaBaCo <sub>2</sub> O <sub>5.5</sub> thin films. <b>2018</b> , 34, 398-402		2
392	Domain-engineered BiFeO <sub>3</sub> thin-film photoanodes for highly enhanced ferroelectric solar water splitting. <b>2018</b> , 11, 642-655		67
391	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. <b>2018</b> , 10, 62-123		32
390	Toward designing semiconductor-semiconductor heterojunctions for photocatalytic applications. <b>2018</b> , 430, 2-17		141
389	Water Splitting Catalysis Studied by using Real-Time Faradaic Efficiency Obtained through Coupled Electrolysis and Mass Spectrometry. <b>2018</b> , 5, 44-50		8
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331	Cocatalyst modification of niobium-substituted silver tantalate photocatalyst for enhanced solar water-splitting activity. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 23600-23609	6.7	8
330	Research advances towards large-scale solar hydrogen production from water. <b>2019</b> , 1, 100014		82
329	Synthesis and Optical Properties of Cobalt-Modified Titanium Oxide Films. <b>2019</b> , 126, 674-680		0
328	The mechanism of concentric HfO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> nanotubes investigated by intensity modulated photocurrent spectroscopy (IMPS) and electrochemical impedance spectroscopy (EIS) for photoelectrochemical activity. <b>2019</b> , 65, 104020		17
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326	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. <i>Nanoscale</i> , <b>2019</b> , 11, 15984-15990	7.7	19
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324	(TiO <sub>2</sub> (B) Nanosheet)/(Metallic Phase MoS <sub>2</sub> ) Hybrid Nanostructures: An Efficient Catalyst for Photocatalytic Hydrogen Evolution. <b>2019</b> , 3, 1900323		12



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301	Porous Nitrogen Self-Doped Carbon Wrapped Iron Phosphide Hollow Spheres as Efficient Bifunctional Electrocatalysts for Water Splitting. <b>2019</b> , 6, 3437-3444		9
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291	First principles study on Zn doped MgO using Hubbard U correction. <b>2019</b> , 6, 094012		3
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138	Pd <sub>4</sub> S <sub>3</sub> Se <sub>3</sub> , Pd <sub>4</sub> S <sub>3</sub> Te <sub>3</sub> , and Pd <sub>4</sub> Se <sub>3</sub> Te <sub>3</sub> : Candidate Two-Dimensional Janus Materials for Photocatalytic Water Splitting. <b>2021</b> , 33, 4128-4134	19
137	Tapping hydrogen fuel from the ocean: A review on photocatalytic, photoelectrochemical and electrolytic splitting of seawater. <b>2021</b> , 142, 110866	9
136	Tandem Photocatalysis Protocol for Hydrogen Generation/Olefin Hydrogenation Using Pd-g-CN-Imine/TiO Nanoparticles. <b>2021</b> , 60, 9484-9495	4
135	The charge transfer pathway of CoO QDs/g-C <sub>3</sub> N <sub>4</sub> composites for highly efficient photocatalytic hydrogen evolution. <b>2021</b> , 415, 113305	3
134	Progress and Perspectives in Photo- and Electrochemical-Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production. 2101180	40
133	Pulsed Laser in Liquids Made Nanomaterials for Catalysis. <b>2021</b> , 121, 7568-7637	26
132	Highly Efficient Photothermocatalytic CO <sub>2</sub> Reduction in Ni/Mg-Doped Al <sub>2</sub> O <sub>3</sub> with High Fuel Production Rate, Large Light-to-Fuel Efficiency, and Good Durability.	4
131	Scalable, highly stable Si-based metal-insulator-semiconductor photoanodes for water oxidation fabricated using thin-film reactions and electrodeposition. <b>2021</b> , 12, 3982	3
130	Photocatalytic overall water splitting by graphitic carbon nitride. <b>2021</b> , 3, 931-961	16
129	Ternary multifunctional catalysts of polymeric carbon nitride coupled with Pt-embedded transition metal oxide to enhance light-driven photothermal catalytic degradation of VOCs. <b>2021</b> , 412, 125266	12
128	Recent Progress of Electrocatalysts and Photocatalysts Bearing First Row Transition Metal for Hydrogen Evolution Reaction (HER).	
127	Carboxyl groups on g-C <sub>3</sub> N <sub>4</sub> for boosting the photocatalytic U(VI) reduction in the presence of carbonates. <b>2021</b> , 414, 128810	27
126	2D Amorphous CoO Incorporated g-C <sub>3</sub> N <sub>4</sub> Nanotubes for Improved Photocatalytic Performance. <b>2021</b> , 15, 2100254	2

125	Transforming Zn(O,S) from UV to visible-light-driven catalyst with improved hydrogen production rate: Effect of indium and heterojunction. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159316	5.7	3
124	ZnCdS Dotted with Highly Dispersed Pt Supported on SiO <sub>2</sub> Nanospheres Promoting Photocatalytic Hydrogen Evolution. <b>2021</b> , 125, 14656-14665		5
123	Oxidation of Co-Based Porous Nanoparticles Followed by HAADF/BF imaging. <b>2021</b> , 27, 2328-2329		
122	Carbon dots/Bi <sub>2</sub> WO <sub>6</sub> composite with compensatory photo-electronic effect for overall water photo-splitting at normal pressure. <b>2021</b> , 32, 2283-2286		9
121	Integrated Battery-Capacitor Electrodes: Pyridinic N-Doped Porous Carbon-Coated Abundant Oxygen Vacancy Mn-Ni-Layered Double Oxide for Hybrid Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34374-34384	9.5	6
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119	X-ray studies bridge the molecular and macro length scales during the emergence of CoO assemblies. <b>2021</b> , 12, 4429		5
118	A novel synergetic effect between Ru and Cu nanoparticles for Ru-Cu/Al <sub>2</sub> O <sub>3</sub> causes highly efficient photothermocatalytic CO <sub>2</sub> reduction with good durability. <b>2021</b> , 556, 149821		1
117	The strain and transition metal doping effects on monolayer Cr <sub>2</sub> O <sub>3</sub> for hydrogen evolution reaction: The first principle calculations. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	0
116	Photothermocatalytic Dry Reforming of Methane for Efficient CO <sub>2</sub> Reduction and Solar Energy Storage. <b>2021</b> , 9, 11635-11651		2
115	Design Predictions of n <sup>+</sup> /n <sup>-</sup> Heterojunction Based Photoanode for Efficient Unbiased Overall Solar Water Splitting. 2100570		1
114	Hybridized Nanomaterials for Enhancing Photocatalytic Activity in Solar Fuel Production. <b>2022</b> , 817-861		1
113	Silicon-Silver Dendritic Nanostructures Enabled Photoelectrochemical Solar Water Splitting for Energy Applications.		
112	Graphitic carbon nitride heterojunction photocatalysts for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	5
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