

# Ke Yu

## List of Publications by Year in descending order

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112  
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4,831  
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66234

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112  
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112  
docs citations

112  
times ranked

7331  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc oxide nanorod and nanowire for humidity sensor. Applied Surface Science, 2005, 242, 212-217.	3.1	396
2	Hollow Structured Micro/Nano MoS <sub>2</sub> Spheres for High Electrocatalytic Activity Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 5517-5525.	4.0	190
3	Hydrothermal Synthesis of Novel MoS <sub>2</sub> /BiVO <sub>4</sub> Hetero-Nanoflowers with Enhanced Photocatalytic Activity and a Mechanism Investigation. Journal of Physical Chemistry C, 2015, 119, 22681-22689.	1.5	189
4	Synthesis of Au-Decorated V <sub>2</sub> O <sub>5</sub> @ZnO Heteronanostructures and Enhanced Plasmonic Photocatalytic Activity. ACS Applied Materials & Interfaces, 2014, 6, 14851-14860.	4.0	135
5	MoS <sub>2</sub> /Graphene Hybrid Nanoflowers with Enhanced Electrochemical Performances as Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 7959-7968.	1.5	133
6	The combinations of hollow MoS <sub>2</sub> micro@nano-spheres: one-step synthesis, excellent photocatalytic and humidity sensing properties. Journal of Materials Chemistry C, 2014, 2, 5422-5430.	2.7	116
7	Synergistic Effect of MoS <sub>2</sub> Nanosheets and VS <sub>2</sub> for the Hydrogen Evolution Reaction with Enhanced Humidity-Sensing Performance. ACS Applied Materials & Interfaces, 2017, 9, 42139-42148.	4.0	112
8	Significant improvement of field emission by depositing zinc oxide nanostructures on screen-printed carbon nanotube films. Applied Physics Letters, 2006, 88, 153123.	1.5	108
9	Room-temperature high-sensitivity H <sub>2</sub> S gas sensor based on dendritic ZnO nanostructures with macroscale in appearance. Journal of Applied Physics, 2008, 103, .	1.1	107
10	Charge-Transfer Induced High Efficient Hydrogen Evolution of MoS <sub>2</sub> /graphene Cocatalyst. Scientific Reports, 2015, 5, 18730.	1.6	105
11	Firework-shaped TiO <sub>2</sub> microspheres embedded with few-layer MoS <sub>2</sub> as an anode material for excellent performance lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 6392-6401.	5.2	104
12	VO <sub>2</sub> (p)-V <sub>2</sub> C(MXene) Grid Structure as a Lithium Polysulfide Catalytic Host for High-Performance Li-S Battery. ACS Applied Materials & Interfaces, 2019, 11, 44282-44292.	4.0	100
13	Coral-Shaped MoS <sub>2</sub> Decorated with Graphene Quantum Dots Performing as a Highly Active Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 3653-3660.	4.0	98
14	Facile synthesis of novel MoS <sub>2</sub> @SnO <sub>2</sub> hetero-nanoflowers and enhanced photocatalysis and field-emission properties. Dalton Transactions, 2014, 43, 13136-13144.	1.6	86
15	Synthesis and field emission of four kinds of ZnO nanostructures: nanosleeve-fishes, radial nanowire arrays, nanocombs and nanoflowers. Nanotechnology, 2006, 17, 2855-2859.	1.3	81
16	Hydrothermal synthesis of VO <sub>2</sub> (B) nanostructures and application in aqueous Li-ion battery. Electrochimica Acta, 2011, 56, 2122-2126.	2.6	81
17	Fabrication and theoretical investigation of MoS <sub>2</sub> -Co <sub>3</sub> S <sub>4</sub> hybrid hollow structure as electrode material for lithium-ion batteries and supercapacitors. Chemical Engineering Journal, 2018, 347, 607-617.	6.6	81
18	Porous V <sub>2</sub> O <sub>5</sub> micro/nano-tubes: Synthesis via a CVD route, single-tube-based humidity sensor and improved Li-ion storage properties. Journal of Materials Chemistry, 2012, 22, 5013.	6.7	72

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19	Synthesis of the MoS <sub>2</sub> @CuO heterogeneous structure with improved photocatalysis performance and H <sub>2</sub> O adsorption analysis. Dalton Transactions, 2015, 44, 10438-10447.	1.6	70
20	Facile synthesis of p-type Cu <sub>2</sub> O/n-type ZnO nano-heterojunctions with novel photoluminescence properties, enhanced field emission and photocatalytic activities. Nanoscale, 2012, 4, 7817.	2.8	68
21	Highly efficient field emission properties of a novel layered VS <sub>2</sub> /ZnO nanocomposite and flexible VS <sub>2</sub> nanosheet. Journal of Materials Chemistry C, 2014, 2, 4196-4202.	2.7	66
22	Controllable synthesis of novel Cu <sub>2</sub> O micro/nano-crystals and their photoluminescence, photocatalytic and field emission properties. CrystEngComm, 2012, 14, 278-285.	1.3	65
23	2D organ-like molybdenum carbide (MXene) coupled with MoS <sub>2</sub> nanoflowers enhances the catalytic activity in the hydrogen evolution reaction. CrystEngComm, 2020, 22, 1395-1403.	1.3	63
24	Cu <sub>3</sub> BiS <sub>3</sub> /MXenes with Excellent Solar-Driven Thermal Conversion for Continuous and Efficient Seawater Desalination. ACS Applied Materials & Interfaces, 2021, 13, 16246-16258.	4.0	60
25	2D heterogeneous vanadium compound interfacial modulation enhanced synergistic catalytic hydrogen evolution for full pH range seawater splitting. Nanoscale, 2020, 12, 6176-6187.	2.8	60
26	Synthesis of V <sub>2</sub> O <sub>5</sub> nanostructures with various morphologies and their electrochemical and field-emission properties. Chemical Engineering Journal, 2012, 188, 64-70.	6.6	55
27	High photocatalytic performance of a type-II In <sub>2</sub> -MoO <sub>3</sub> @MoS <sub>2</sub> heterojunction: from theory to experiment. Physical Chemistry Chemical Physics, 2016, 18, 14074-14085.	1.3	55
28	Cu <sub>2</sub> S@ZnO hetero-nanostructures: facile synthesis, morphology-evolution and enhanced photocatalysis and field emission properties. CrystEngComm, 2013, 15, 1753.	1.3	54
29	Preparation of hollow microsphere@onion-like solid nanosphere MoS <sub>2</sub> coated by a carbon shell as a stable anode for optimized lithium storage. Nanoscale, 2016, 8, 420-430.	2.8	53
30	Stabilizing Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> -MXenes with TiO <sub>2</sub> nanospheres intercalation to improve hydrogen evolution reaction and humidity-sensing performance. Applied Surface Science, 2019, 496, 143729.	3.1	52
31	Multi-slice nanostructured WS <sub>2</sub> @rGO with enhanced Li-ion battery performance and a comprehensive mechanistic investigation. Physical Chemistry Chemical Physics, 2015, 17, 29824-29833.	1.3	51
32	Metal-organic frameworks-derived CoP anchored on MXene toward an efficient bifunctional electrode with enhanced lithium storage. Chemical Engineering Journal, 2021, 416, 129102.	6.6	51
33	Ultrathin Ti <sub>2</sub> NT <sub>x</sub> MXene-wrapped MOF-derived CoP frameworks towards hydrogen evolution and water oxidation. Electrochimica Acta, 2021, 393, 139068.	2.6	51
34	Dual-mode protein detection based on Fe <sub>3</sub> O <sub>4</sub> -Au hybrid nanoparticles. Nano Research, 2012, 5, 272-282.	5.8	50
35	Heterostructure nanohybrids of Ni-doped MoSe <sub>2</sub> coupled with Ti <sub>2</sub> NT <sub>x</sub> toward efficient overall water splitting. Electrochimica Acta, 2020, 353, 136598.	2.6	50
36	Experimental and First-Principles Investigation of MoWS <sub>2</sub> with High Hydrogen Evolution Performance. ACS Applied Materials & Interfaces, 2016, 8, 29442-29451.	4.0	49

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37	Ta <sub>2</sub> nanosheet-based ultrafast response and flexible humidity sensor for multifunctional applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9284-9292.	2.7	48
38	Controllable Synthesis of In <sub>2</sub> O <sub>3</sub> Nanocubes, Truncated Nanocubes, and Symmetric Multipods. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16267-16271.	1.5	47
39	Electrochemical Oxidative Halogenation of <i>N</i> -Aryl Alkynamides for the Synthesis of Spiro[4.5]trienones. <i>Journal of Organic Chemistry</i> , 2021, 86, 917-928.	1.7	46
40	Enhanced field emission and photocatalytic performance of MoS <sub>2</sub> /titania nanoheterojunctions via two synthetic approaches. <i>Dalton Transactions</i> , 2015, 44, 1664-1672.	1.6	43
41	Synthesis and humidity sensing properties of feather-like ZnO nanostructures with macroscale in shape. <i>Sensors and Actuators A: Physical</i> , 2008, 143, 245-250.	2.0	42
42	Morphology-control of VO <sub>2</sub> (B) nanostructures in hydrothermal synthesis and their field emission properties. <i>Applied Surface Science</i> , 2011, 257, 8840-8845.	3.1	42
43	A functional design and synthesization for electrocatalytic hydrogen evolution material on MoS <sub>2</sub> /Co <sub>3</sub> S <sub>4</sub> hybrid hollow nanostructure. <i>Electrochimica Acta</i> , 2018, 269, 262-273.	2.6	42
44	Field emission from GaN nanobelts with herringbone morphology. <i>Materials Letters</i> , 2004, 58, 2893-2896.	1.3	41
45	Novel dual-petal nanostructured WS <sub>2</sub> @MoS <sub>2</sub> with enhanced photocatalytic performance and a comprehensive first-principles investigation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20225-20235.	5.2	41
46	Room-temperature ferromagnetism properties of Cu-doped SnO <sub>2</sub> nanowires. <i>Journal of Applied Physics</i> , 2010, 107, 014303.	1.1	38
47	3R Ta <sub>2</sub> Surpasses the Corresponding 1T and 2H Phases for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2382-2390.	1.5	38
48	Fabrication and Temperature-Dependent Field-Emission Properties of Bundlelike VO <sub>2</sub> Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2057-2062.	4.0	37
49	Field emission behavior of cuboid zinc oxide nanorods on zinc-filled porous silicon. <i>Solid State Communications</i> , 2005, 133, 43-47.	0.9	36
50	Large-scale synthesis of ZnO flower-like and brush pen-like nanostructures by a hydrothermal decomposition route. <i>Materials Letters</i> , 2007, 61, 3469-3472.	1.3	33
51	Efficient field emission from tetrapod-like zinc oxide nanoneedles. <i>Materials Letters</i> , 2005, 59, 1866-1870.	1.3	32
52	Porous ZnO nanobelts evolved from layered basic zinc acetate nanobelts. <i>Applied Surface Science</i> , 2008, 254, 3517-3521.	3.1	32
53	Low-temperature CVD synthesis of patterned core-shell VO <sub>2</sub> @ZnO nanotetrapods and enhanced temperature-dependent field-emission properties. <i>Nanoscale</i> , 2014, 6, 11820-11827.	2.8	32
54	Humidity Sensing Properties of Flower-Like VO <sub>2</sub> (B) and VO <sub>2</sub> (M) Nanostructures. <i>Electroanalysis</i> , 2011, 23, 1752-1758.	1.5	31

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55	Vanadium based carbide-oxide heterogeneous $V_2O_5@V_2C$ nanotube arrays for high-rate and long-life lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 18950-18964.	2.8	31
56	Investigation of electrical and ammonia sensing characteristics of Schottky barrier diode based on a single ultra-long ZnO nanorod. <i>Applied Surface Science</i> , 2008, 254, 5736-5740.	3.1	28
57	Controlled synthesis of Cu <sub>2</sub> S microrings and their photocatalytic and field emission properties. <i>Chemical Engineering Journal</i> , 2013, 230, 236-243.	6.6	27
58	Experimental and theoretical investigation on MoS <sub>2</sub> /MXene heterostructure as an efficient electrocatalyst for hydrogen evolution in both acidic and alkaline media. <i>New Journal of Chemistry</i> , 2020, 44, 7902-7911.	1.4	27
59	Self-Assembled Vanadium Oxide Nanoflakes for p-Type Ammonia Sensors at Room Temperature. <i>Nanomaterials</i> , 2019, 9, 317.	1.9	26
60	Growth and optical applications of centimeter-long ZnO nanocombs. <i>Nano Research</i> , 2008, 1, 221-228.	5.8	25
61	Electrochemical Oxidation-induced Difunctionalization of Alkynes and Alkenes with Sulfonyl Hydrazides: Facile Access to $\beta$ -Selenovinyl Sulfones and $\beta$ -Ketosulfones. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1760-1764.	1.3	25
62	Synthesis, optical and field emission properties of three different ZnO nanostructures. <i>Materials Letters</i> , 2007, 61, 3890-3892.	1.3	23
63	Synthesis, field emission and humidity sensing characteristics of monoclinic VO <sub>2</sub> nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1720-1725.	1.3	23
64	Synthesis of a MoS <sub>2</sub> @MWNT nanostructure with enhanced field emission and electrochemical properties. <i>RSC Advances</i> , 2013, 3, 10994.	1.7	23
65	ZnO nanostructures with different morphologies and their field emission properties. <i>Applied Surface Science</i> , 2006, 252, 8410-8413.	3.1	22
66	Structure and humidity sensing properties of SnO <sub>2</sub> zigzag belts. <i>Crystal Research and Technology</i> , 2010, 45, 539-544.	0.6	22
67	Shape evolution, photoluminescence and degradation properties of novel Cu <sub>2</sub> O micro/nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 709-717.	1.1	22
68	Metal-Free Electrochemical Coupling of Vinyl Azides: Synthesis of Phenanthridines and $\beta$ -Ketosulfones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6135-6145.	1.2	22
69	Oxygen-Terminated Nb <sub>2</sub> CO <sub>2</sub> MXene with Interfacial Self-Assembled COF as a Bifunctional Catalyst for Durable Zinc-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 10738-10746.	4.0	22
70	Synthesis and field emission of patterned ZnO nanorods. <i>Current Applied Physics</i> , 2007, 7, 702-706.	1.1	21
71	Synthesis and field emission of two kinds of ZnO nanotubes: taper-like and flat-roofed tubes. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 90, 739-743.	1.1	21
72	First-Principle and Experiment Framework for Charge Distribution at the Interface of the Molybdenum Dichalcogenide Hybrid for Enhanced Electrochemical Hydrogen Generation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15096-15104.	1.5	21

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73	Synthesis and field-emission properties of In <sub>2</sub> O <sub>3</sub> nanostructures. <i>Materials Letters</i> , 2008, 62, 2710-2713.	1.3	20
74	Preparation of yolk-shell MoS <sub>2</sub> nanospheres covered with carbon shell for excellent lithium-ion battery anodes. <i>Applied Surface Science</i> , 2018, 434, 1021-1029.	3.1	20
75	Few-layer MoS <sub>2</sub> dendrites as a highly active humidity sensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 116, 113782.	1.3	20
76	Flower-petal-like Nb <sub>2</sub> C MXene combined with MoS <sub>2</sub> as bifunctional catalysts towards enhanced lithium-sulfur batteries and hydrogen evolution. <i>Electrochimica Acta</i> , 2022, 404, 139781.	2.6	19
77	Optical properties of SiO <sub>2</sub> and ZnO nanostructured replicas of butterfly wing scales. <i>Nano Research</i> , 2011, 4, 737-745.	5.8	18
78	Differently structured MoS <sub>2</sub> for the hydrogen production application and a mechanism investigation. <i>Journal of Alloys and Compounds</i> , 2016, 685, 65-69.	2.8	17
79	Fabrication of highly ordered and stepped ZnO comb-like structures. <i>Applied Surface Science</i> , 2007, 253, 6835-6839.	3.1	16
80	Novel In <sub>2</sub> O <sub>3</sub> nanostructures fabricated by controlling the kinetics factor for field emission display. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1502-1508.	1.3	15
81	Electrochemical performance of B and M phases VO <sub>2</sub> nanoflowers. <i>Crystal Research and Technology</i> , 2011, 46, 507-510.	0.6	14
82	First-principle and experiment investigation of MoS <sub>2</sub> @SnO <sub>2</sub> nano-heterogeneous structures with enhanced humidity sensing performance. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	13
83	NiS <sub>2</sub> Nanocubes Coated Ti <sub>3</sub> C <sub>2</sub> Nanosheets with Enhanced Light-to-Heat Conversion for Fast and Efficient Solar Seawater Steam Generation. <i>Solar Rrl</i> , 2021, 5, 2100183.	3.1	13
84	Electrochemical Sulfonylation-Induced Lactonization of Alkenes: Synthesis of Sulfonyl Phthalides. <i>Journal of Organic Chemistry</i> , 2022, 87, 1208-1217.	1.7	13
85	Interfacial superassembly of MoSe <sub>2</sub> @Ti <sub>2</sub> N MXene hybrids enabling promising lithium-ion storage. <i>CrystEngComm</i> , 2020, 22, 5995-6002.	1.3	12
86	Electrochemical Oxidative Cross-Coupling between Vinyl Azides and Thiophenols: Synthesis of gem-Bisarylthio Enamines. <i>Journal of Organic Chemistry</i> , 2021, 86, 15946-15952.	1.7	12
87	Field emission and room temperature ferromagnetism properties of triangle-like ZnO nanosheets. <i>Applied Surface Science</i> , 2009, 256, 208-212.	3.1	11
88	Controllable synthesis and field emission enhancement of Al <sub>2</sub> O <sub>3</sub> coated In <sub>2</sub> O <sub>3</sub> core-shell nanostructures. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 105301.	1.3	11
89	Room-temperature blue-violet laser emission from individual ultra-long ZnO microbelts. <i>Materials Letters</i> , 2014, 121, 231-233.	1.3	11
90	Polarized photoluminescence study of whispering gallery mode polaritons in ZnO microcavity. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 133-136.	0.8	10

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91	Evolution in shapes of a series of (111)-based In <sub>2</sub> O <sub>3</sub> particles. Applied Physics A: Materials Science and Processing, 2007, 90, 113-117.	1.1	9
92	Temperature dependent photoluminescence properties of needle-like ZnO nanostructures deposited on carbon nanotubes. Applied Physics A: Materials Science and Processing, 2011, 105, 463-468.	1.1	9
93	Synthesis of a finger-like MoS <sub>2</sub> @VS <sub>2</sub> micro-“nanocomposite with enhanced field emission performance. CrystEngComm, 2020, 22, 3797-3803.	1.3	9
94	Synthesis of ZnO nanostructures on CuO catalyzed porous silicon substrate. Materials Letters, 2005, 59, 3525-3529.	1.3	8
95	Controllable synthesis and field emission properties of In <sub>2</sub> O <sub>3</sub> nanostructures. Crystal Research and Technology, 2010, 45, 173-177.	0.6	8
96	Porous Co <sub>3</sub> O <sub>4</sub> stabilized VS <sub>2</sub> nanosheets obtained with a MOF template for the efficient HER. CrystEngComm, 2021, 23, 5097-5105.	1.3	8
97	Controllable synthesis of novel In <sub>2</sub> O <sub>3</sub> nanostructures and their field emission properties. Crystal Research and Technology, 2011, 46, 90-94.	0.6	7
98	MoS <sub>2</sub> compounded bidirectionally with TiO <sub>2</sub> for hydrogen evolution reaction with enhanced humidity sensing performance. Materials Science in Semiconductor Processing, 2018, 82, 75-81.	1.9	7
99	Marigold-like Cu <sub>x</sub> (x = 1.81, 2) S <sub>2</sub> nanocrystals: controllable synthesis, field emission, and photocatalytic properties. Applied Physics A: Materials Science and Processing, 2014, 115, 801-808.	1.1	6
100	On the role of grain boundaries in nanocrystalline $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> under high pressure. Journal of Applied Physics, 2012, 111, 063718.	1.1	5
101	Color-tunable magnetic and luminescent hybrid nanoparticles: Synthesis, optical and magnetic properties. Applied Surface Science, 2012, 258, 3744-3749.	3.1	5
102	Cracked eight-awn star TaS <sub>2</sub> with fractal structures used as an efficient electrocatalyst for the hydrogen evolution reaction. CrystEngComm, 2019, 21, 3517-3524.	1.3	5
103	Synthesis and room-temperature ferromagnetism of cobalt-doped SnO <sub>2</sub> nanowires. Journal of Materials Research, 2009, 24, 2001-2005.	1.2	4
104	Synthesis, optical and field emission properties of ZnO microhair-clasps. Applied Surface Science, 2009, 255, 6487-6492.	3.1	4
105	Controlled synthesis of novel rod-like Cu <sub>1.81</sub> S nanostructures and field emission properties. Applied Surface Science, 2014, 315, 235-240.	3.1	4
106	Two-step synthesis of novel Cu <sub>2</sub> S nanoflowers for field emission application. Materials Letters, 2014, 137, 56-58.	1.3	4
107	First-principles calculations on strain and electric field induced band modulation and phase transition of bilayer WSe <sub>2</sub> /MoS <sub>2</sub> heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 17-22.	1.3	4
108	Efficient field emission from electrochemically fabricated silicon nanocrystallite films. Physica B: Condensed Matter, 2004, 348, 391-396.	1.3	3

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109	Synthesis and Field Emission Properties of Hierarchical ZnO Nanostructures. Journal of Nanomaterials, 2010, 2010, 1-5.	1.5	3
110	On the performance and power consumption analysis of elastic clouds. Concurrency Computation Practice and Experience, 2016, 28, 4367-4384.	1.4	3
111	First-principles and experimental investigation of carbon-coated MoS <sub>2</sub> hollow nanosphere heterogeneous structures with enhanced hydrogen evolution performance. New Journal of Chemistry, 2019, 43, 17502-17510.	1.4	2
112	Fabrication and optical properties of two-dimensional photonic crystal of ZnO pillars. Crystal Research and Technology, 2010, 45, 393-397.	0.6	0