Ke Yu

List of Publications by Year
in descending order

112 papers	4,831 citations	66234 42 h-index	106150 65 g-index
112 all docs	112 docs citations	112 times ranked	7331 citing authors

#	Article	IF	Citations
1	Flower-petal-like Nb2C MXene combined with MoS2 as bifunctional catalysts towards enhanced lithium-sulfur batteries and hydrogen evolution. Electrochimica Acta, 2022, 404, 139781.	2.6	19
2	Electrochemical Sulfonylation-Induced Lactonization of Alkenes: Synthesis of Sulfonyl Phthalides. Journal of Organic Chemistry, 2022, 87, 1208-1217.	1.7	13
3	Oxygen-Terminated Nb₂CO₂ MXene with Interfacial Self-Assembled COF as a Bifunctional Catalyst for Durable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2022, 14, 10738-10746.	4.0	22
4	Electrochemical Oxidative Halogenation of N-Aryl Alkynamides for the Synthesis of Spiro[4.5]trienones. Journal of Organic Chemistry, 2021, 86, 917-928.	1.7	46
5	Porous Co₃O₄ stabilized VS₂ nanosheets obtained with a MOF template for the efficient HER. CrystEngComm, 2021, 23, 5097-5105.	1.3	8
6	Cu₃BiS₃/MXenes with Excellent Solarâ€“Thermal Conversion for Continuous and Efficient Seawater Desalination. ACS Applied Materials & Interfaces, 2021, 13, 16246-16258.	4.0	60
7	NiS₂ Nanocubes Coated Ti₃C₂ Nanosheets with Enhanced Lightâ€toâ€Heat Conversion for Fast and Efficient Solar Seawater Steam Generation. Solar Rrl, 2021, 5, 2100183.	3.1	13
8	Electrochemical Oxidative Cross-Coupling between Vinyl Azides and Thiophenols: Synthesis of gem-Bisarylthio Enamines. Journal of Organic Chemistry, 2021, 86, 15946-15952.	1.7	12
9	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
10	Ultrathin Ti2NTx MXene-wrapped MOF-derived CoP frameworks towards hydrogen evolution and water oxidation. Electrochimica Acta, 2021, 393, 139068.	2.6	51
11	Few-layer MoS2 dendrites as a highly active humidity sensor. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 116, 113782.	1.3	20
12	2D organ-like molybdenum carbide (MXene) coupled with MoS₂ nanoflowers enhances the catalytic activity in the hydrogen evolution reaction. CrystEngComm, 2020, 22, 1395-1403.	1.3	63
13	Electrochemical Oxidationâ€induced Difunctionalization of Alkynes and Alkenes with Sulfonyl Hydrazides: Facile Access to Î²â€Selenovinyl Sulfones and Î²â€Ketosulfones. Asian Journal of Organic Chemistry, 2020, 9, 1760-1764.	1.3	25
14	Interfacial superassembly of MoSe₂@Ti₂N MXene hybrids enabling promising lithium-ion storage. CrystEngComm, 2020, 22, 5995-6002.	1.3	12
15	Metalâ€Free Electrochemical Coupling of Vinyl Azides: Synthesis of Phenanthridines and Î²â€Ketosulfones. European Journal of Organic Chemistry, 2020, 2020, 6135-6145.	1.2	22
16	Vanadium based carbideâ€“oxide heterogeneous V₂O₅@V₂C nanotube arrays for high-rate and long-life lithiumâ€“sulfur batteries. Nanoscale, 2020, 12, 18950-18964.	2.8	31
17	Synthesis of a finger-like MoS₂@VS₂ microâ€“nanocomposite with enhanced field emission performance. CrystEngComm, 2020, 22, 3797-3803.	1.3	9
18	Heterostructure nanohybrids of Ni-doped MoSe2 coupled with Ti2NTx toward efficient overall water splitting. Electrochimica Acta, 2020, 353, 136598.	2.6	50

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19	Experimental and theoretical investigation on MoS₂/MXene heterostructure as an efficient electrocatalyst for hydrogen evolution in both acidic and alkaline media. New Journal of Chemistry, 2020, 44, 7902-7911.	1.4	27
20	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
21	TaS₂ nanosheet-based ultrafast response and flexible humidity sensor for multifunctional applications. Journal of Materials Chemistry C, 2019, 7, 9284-9292.	2.7	48
22	VO₂(p)-V₂C(MXene) Grid Structure as a Lithium Polysulfide Catalytic Host for High-Performance Liâ€“S Battery. ACS Applied Materials & Interfaces, 2019, 11, 44282-44292.	4.0	100
23	Stabilizing Ti3C2Tx-MXenes with TiOF2 nanospheres intercalation to improve hydrogen evolution reaction and humidity-sensing performance. Applied Surface Science, 2019, 496, 143729.	3.1	52
24	Cracked eight-awn star TaS₂ with fractal structures used as an efficient electrocatalyst for the hydrogen evolution reaction. CrystEngComm, 2019, 21, 3517-3524.	1.3	5
25	Self-Assembled Vanadium Oxide Nanoflakes for p-Type Ammonia Sensors at Room Temperature. Nanomaterials, 2019, 9, 317.	1.9	26
26	First-principles and experimental investigation of carbon-coated MoS₂ hollow nanosphere heterogeneous structures with enhanced hydrogen evolution performance. New Journal of Chemistry, 2019, 43, 17502-17510.	1.4	2
27	MoS2 compounded bidirectionally with TiO2 for hydrogen evolution reaction with enhanced humidity sensing performance. Materials Science in Semiconductor Processing, 2018, 82, 75-81.	1.9	7
28	3R TaS₂ Surpasses the Corresponding 1T and 2H Phases for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 2382-2390.	1.5	38
29	Fabrication and theoretical investigation of MoS2-Co3S4 hybrid hollow structure as electrode material for lithium-ion batteries and supercapacitors. Chemical Engineering Journal, 2018, 347, 607-617.	6.6	81
30	A functional design and synthesization for electrocatalytic hydrogen evolution material on MoS2/Co3S4 hybrid hollow nanostructure. Electrochimica Acta, 2018, 269, 262-273.	2.6	42
31	First-principles calculations on strain and electric field induced band modulation and phase transition of bilayer WSe 2 MoS 2 heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 17-22.	1.3	4
32	Preparation of yolk-shell MoS2 nanospheres covered with carbon shell for excellent lithium-ion battery anodes. Applied Surface Science, 2018, 434, 1021-1029.	3.1	20
33	Coral-Shaped MoS₂ 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
34	Synergistic Effect of MoS₂ Nanosheets and VS₂ for the Hydrogen Evolution Reaction with Enhanced Humidity-Sensing Performance. ACS Applied Materials & Interfaces, 2017, 9, 42139-42148.	4.0	112
35	First-Principle and Experiment Framework for Charge Distribution at the Interface of the Molybdenum Dichalcogenide Hybrid for Enhanced Electrochemical Hydrogen Generation. Journal of Physical Chemistry C, 2016, 120, 15096-15104.	1.5	21
36	First-principle and experiment investigation of MoS2@SnO2 nano-heterogeneous structures with enhanced humidity sensing performance. Journal of Applied Physics, 2016, 119, .	1.1	13

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37	High photocatalytic performance of a type-II Î±-MoO₃@MoS₂heterojunction: from theory to experiment. Physical Chemistry Chemical Physics, 2016, 18, 14074-14085.	1.3	55
38	Experimental and First-Principles Investigation of MoWS₂ with High Hydrogen Evolution Performance. ACS Applied Materials & Interfaces, 2016, 8, 29442-29451.	4.0	49
39	On the performance and power consumption analysis of elastic clouds. Concurrency Computation Practice and Experience, 2016, 28, 4367-4384.	1.4	3
40	Differently structured MoS2 for the hydrogen production application and a mechanism investigation. Journal of Alloys and Compounds, 2016, 685, 65-69.	2.8	17
41	Preparation of hollow microsphere@onion-like solid nanosphere MoS₂coated by a carbon shell as a stable anode for optimized lithium storage. Nanoscale, 2016, 8, 420-430.	2.8	53
42	Hollow Structured Micro/Nano MoS₂ Spheres for High Electrocatalytic Activity Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 5517-5525.	4.0	190
43	Charge-Transfer Induced High Efficient Hydrogen Evolution of MoS2/graphene Cocatalyst. Scientific Reports, 2015, 5, 18730.	1.6	105
44	Firework-shaped TiO₂ microspheres embedded with few-layer MoS₂ as an anode material for excellent performance lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 6392-6401.	5.2	104
45	MoS₂/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
46	Synthesis of the MoS2@CuO heterogeneous structure with improved photocatalysis performance and H2O adsorption analysis. Dalton Transactions, 2015, 44, 10438-10447.	1.6	70
47	Multi-slice nanostructured WS₂@rGO with enhanced Li-ion battery performance and a comprehensive mechanistic investigation. Physical Chemistry Chemical Physics, 2015, 17, 29824-29833.	1.3	51
48	Novel dual-petal nanostructured WS₂@MoS₂ with enhanced photocatalytic performance and a comprehensive first-principles investigation. Journal of Materials Chemistry A, 2015, 3, 20225-20235.	5.2	41
49	Hydrothermal Synthesis of Novel MoS₂/BiVO₄ Hetero-Nanoflowers with Enhanced Photocatalytic Activity and a Mechanism Investigation. Journal of Physical Chemistry C, 2015, 119, 22681-22689.	1.5	189
50	Enhanced field emission and photocatalytic performance of MoS₂ titania nanoheterojunctions via two synthetic approaches. Dalton Transactions, 2015, 44, 1664-1672.	1.6	43
51	Marigold-like Cu x (x = 1.81 , 2) S $mbox{Cu}_{x (x=1.81, 2)}mbox{S}$ nanocrystals: controllable synthesis, field emission, and photocatalytic properties. Applied Physics A: Materials Science and Processing, 2014, 115, 801-808.	1.1	6
52	Low-temperature CVD synthesis of patterned coreâ€“shell VO₂@ZnO nanotetrapods and enhanced temperature-dependent field-emission properties. Nanoscale, 2014, 6, 11820-11827.	2.8	32
53	Highly efficient field emission properties of a novel layered VS₂/ZnO nanocomposite and flexible VS₂ nanosheet. Journal of Materials Chemistry C, 2014, 2, 4196-4202.	2.7	66
54	Controlled synthesis of novel rod-like Cu 1.81 S nanostructures and field emission properties. Applied Surface Science, 2014, 315, 235-240.	3.1	4

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55	Synthesis of Au-Decorated V₂O₅@ZnO Heteronanostructures and Enhanced Plasmonic Photocatalytic Activity. ACS Applied Materials & Interfaces, 2014, 6, 14851-14860.	4.0	135
56	Facile synthesis of novel MoS₂@SnO₂ hetero-nanoflowers and enhanced photocatalysis and field-emission properties. Dalton Transactions, 2014, 43, 13136-13144.	1.6	86
57	Two-step synthesis of novel Cu2S nanoflowers for field emission application. Materials Letters, 2014, 137, 56-58.	1.3	4
58	Room-temperature blueâ€“violet laser emission from individual ultra-long ZnO microbelts. Materials Letters, 2014, 121, 231-233.	1.3	11
59	The combinations of hollow MoS₂ micro@nano-spheres: one-step synthesis, excellent photocatalytic and humidity sensing properties. Journal of Materials Chemistry C, 2014, 2, 5422-5430.	2.7	116
60	Controlled synthesis of Cu2S microrings and their photocatalytic and field emission properties. Chemical Engineering Journal, 2013, 230, 236-243.	6.6	27
61	Synthesis of a MoS2@MWNT nanostructure with enhanced field emission and electrochemical properties. RSC Advances, 2013, 3, 10994.	1.7	23
62	Cu2S@ZnO hetero-nanostructures: facile synthesis, morphology-evolution and enhanced photocatalysis and field emission properties. CrystEngComm, 2013, 15, 1753.	1.3	54
63	On the role of grain boundaries in nanocrystalline Î³-Fe2O3 under high pressure. Journal of Applied Physics, 2012, 111, 063718.	1.1	5
64	Facile synthesis of p-type Cu2O/n-type ZnO nano-heterojunctions with novel photoluminescence properties, enhanced field emission and photocatalytic activities. Nanoscale, 2012, 4, 7817.	2.8	68
65	Shape evolution, photoluminescence and degradation properties of novel Cu2O micro/nanostructures. Applied Physics A: Materials Science and Processing, 2012, 108, 709-717.	1.1	22
66	Color-tunable magnetic and luminescent hybrid nanoparticles: Synthesis, optical and magnetic properties. Applied Surface Science, 2012, 258, 3744-3749.	3.1	5
67	Porous V2O5 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
68	Controllable synthesis of novel Cu₂O micro/nano-crystals and their photoluminescence, photocatalytic and field emission properties. CrystEngComm, 2012, 14, 278-285.	1.3	65
69	Dual-mode protein detection based on Fe3O4-Au hybrid nanoparticles. Nano Research, 2012, 5, 272-282.	5.8	50
70	Synthesis of V2O5 nanostructures with various morphologies and their electrochemical and field-emission properties. Chemical Engineering Journal, 2012, 188, 64-70.	6.6	55
71	Fabrication and Temperature-Dependent Field-Emission Properties of Bundlelike VO₂ Nanostructures. ACS Applied Materials & Interfaces, 2011, 3, 2057-2062.	4.0	37
72	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

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73	Optical properties of SiO2 and ZnO nanostructured replicas of butterfly wing scales. Nano Research, 2011, 4, 737-745.	5.8	18
74	Humidity Sensing Properties of Flowerâ€Like VO₂(B) and VO₂(M) Nanostructures. Electroanalysis, 2011, 23, 1752-1758.	1.5	31
75	Controllable synthesis of novel In₂O₃ nanostructures and their field emission properties. Crystal Research and Technology, 2011, 46, 90-94.	0.6	7
76	Electrochemical performance of B and M phases VO₂ nanoflowers. Crystal Research and Technology, 2011, 46, 507-510.	0.6	14
77	Hydrothermal synthesis of VO2 (B) nanostructures and application in aqueous Li-ion battery. Electrochimica Acta, 2011, 56, 2122-2126.	2.6	81
78	Morphology-control of VO2 (B) nanostructures in hydrothermal synthesis and their field emission properties. Applied Surface Science, 2011, 257, 8840-8845.	3.1	42
79	Novel In2O3 nanostructures fabricated by controlling the kinetics factor for field emission display. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1502-1508.	1.3	15
80	Synthesis, field emission and humidity sensing characteristics of monoclinic VO2 nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1720-1725.	1.3	23
81	Controllable synthesis and field emission enhancement of Al2O3coated In2O3coreâ€“shell nanostructures. Journal Physics D: Applied Physics, 2011, 44, 105301.	1.3	11
82	Controllable synthesis and field emission properties of In₂O₃nanostructures. Crystal Research and Technology, 2010, 45, 173-177.	0.6	8
83	Fabrication and optical properties of twoâ€dimensional photonic crystal of ZnO pillars. Crystal Research and Technology, 2010, 45, 393-397.	0.6	0
84	Structure and humidity sensing properties of SnO₂ zigzag belts. Crystal Research and Technology, 2010, 45, 539-544.	0.6	22
85	Synthesis and Field Emission Properties of Hierarchical ZnO Nanostructures. Journal of Nanomaterials, 2010, 2010, 1-5.	1.5	3
86	Room-temperature ferromagnetism properties of Cu-doped SnO2 nanowires. Journal of Applied Physics, 2010, 107, 014303.	1.1	38
87	Synthesis and room-temperature ferromagnetism of cobalt-doped SnO2 nanowires. Journal of Materials Research, 2009, 24, 2001-2005.	1.2	4
88	Field emission and room temperature ferromagnetism properties of triangle-like ZnO nanosheets. Applied Surface Science, 2009, 256, 208-212.	3.1	11
89	Polarized photoluminescence study of whispering gallery mode polaritons in ZnO microcavity. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 133-136.	0.8	10
90	Synthesis, optical and field emission properties of ZnO microhair-clasps. Applied Surface Science, 2009, 255, 6487-6492.	3.1	4

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91	Synthesis and field emission of two kinds of ZnO nanotubes: taper-like and flat-roofed tubes. Applied Physics A: Materials Science and Processing, 2008, 90, 739-743.	1.1	21
92	Growth and optical applications of centimeter-long ZnO nanocombs. Nano Research, 2008, 1, 221-228.	5.8	25
93	Synthesis and humidity sensing properties of feather-like ZnO nanostructures with macroscale in shape. Sensors and Actuators A: Physical, 2008, 143, 245-250.	2.0	42
94	Porous ZnO nanobelts evolved from layered basic zinc acetate nanobelts. Applied Surface Science, 2008, 254, 3517-3521.	3.1	32
95	Investigation of electrical and ammonia sensing characteristics of Schottky barrier diode based on a single ultra-long ZnO nanorod. Applied Surface Science, 2008, 254, 5736-5740.	3.1	28
96	Synthesis and field-emission properties of In2O3 nanostructures. Materials Letters, 2008, 62, 2710-2713.	1.3	20
97	Room-temperature high-sensitivity H2S gas sensor based on dendritic ZnO nanostructures with macroscale in appearance. Journal of Applied Physics, 2008, 103, .	1.1	107
98	Controllable Synthesis of In2O3Nanocubes, Truncated Nanocubes, and Symmetric Multipods. Journal of Physical Chemistry C, 2007, 111, 16267-16271.	1.5	47
99	Fabrication of highly ordered and stepped ZnO comb-like structures. Applied Surface Science, 2007, 253, 6835-6839.	3.1	16
100	Synthesis and field emission of patterned ZnO nanorods. Current Applied Physics, 2007, 7, 702-706.	1.1	21
101	Large-scale synthesis of ZnO flower-like and brush pen-like nanostructures by a hydrothermal decomposition route. Materials Letters, 2007, 61, 3469-3472.	1.3	33
102	Synthesis, optical and field emission properties of three different ZnO nanostructures. Materials Letters, 2007, 61, 3890-3892.	1.3	23
103	Evolution in shapes of a series of (111)-based In2O3 particles. Applied Physics A: Materials Science and Processing, 2007, 90, 113-117.	1.1	9
104	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
105	ZnO nanostructures with different morphologies and their field emission properties. Applied Surface Science, 2006, 252, 8410-8413.	3.1	22
106	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
107	Zinc oxide nanorod and nanowire for humidity sensor. Applied Surface Science, 2005, 242, 212-217.	3.1	396
108	Efficient field emission from tetrapod-like zinc oxide nanoneedles. Materials Letters, 2005, 59, 1866-1870.	1.3	32

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109	Field emission behavior of cuboid zinc oxide nanorods on zinc-filled porous silicon. Solid State Communications, 2005, 133, 43-47.	0.9	36
110	Synthesis of ZnO nanostructures on CuO catalyzed porous silicon substrate. Materials Letters, 2005, 59, 3525-3529.	1.3	8
111	Efficient field emission from electrochemically fabricated silicon nanocrystallite films. Physica B: Condensed Matter, 2004, 348, 391-396.	1.3	3
112	Field emission from GaN nanobelts with herringbone morphology. Materials Letters, 2004, 58, 2893-2896.	1.3	41