

# Keng Xu

## List of Publications by Year in descending order

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33  
papers

1,152  
citations

361413

20  
h-index

395702

33  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hetero-epitaxy growth of cobalt oxide/nickel oxide nanowire arrays on alumina substrates for enhanced ethanol sensing characteristics. <i>Ceramics International</i> , 2022, 48, 3849-3859.	4.8	10
2	Hierarchical Porous and Sandwich-like Sulfur-Doped Carbon Nanosheets as High-Performance Anodes for Sodium-Ion Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 2126-2135.	3.7	11
3	Enhanced Gas Sensing Performance of rGO Wrapped Crystal Facet-Controlled Co <sub>3</sub> O <sub>4</sub> Nanocomposite Heterostructures. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4879-4888.	3.1	9
4	Interface Engineering of Fe <sub>2</sub> O <sub>3</sub> @Co <sub>3</sub> O <sub>4</sub> Nanocubes for Enhanced Triethylamine Sensing Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 8057-8068.	3.7	17
5	Light-assisted room temperature gas sensing performance and mechanism of direct Z-scheme MoS <sub>2</sub> /SnO <sub>2</sub> crystal faceted heterojunctions. <i>Journal of Hazardous Materials</i> , 2022, 436, 129246.	12.4	13
6	Pore engineering of Co <sub>3</sub> O <sub>4</sub> nanowire arrays by MOF-assisted construction for enhanced acetone sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129095.	7.8	39
7	Controllable synthesis of one-dimensional NiS <sub>2</sub> nanotube and nanorod arrays on nickel foams for efficient electrocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 50-60.	7.1	9
8	Tunable resistance of MOFs films via an anion exchange strategy for advanced gas sensing. <i>Journal of Hazardous Materials</i> , 2021, 416, 125906.	12.4	28
9	Highly Mesoporous Cobalt-Hybridized 2D Cu <sub>3</sub> P Nanosheet Arrays as Boosting Janus Electrocatalysts for Water Splitting. <i>Inorganic Chemistry</i> , 2021, 60, 18325-18336.	4.0	8
10	In situ growth of Co <sub>3</sub> O <sub>4</sub> @NiMoO <sub>4</sub> composite arrays on alumina substrate with improved triethylamine sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127154.	7.8	74
11	Crystal facets engineering and rGO hybridizing for synergistic enhancement of photocatalytic activity of nickel disulfide. <i>Journal of Hazardous Materials</i> , 2020, 384, 121402.	12.4	11
12	Controllable preparation of faceted Co <sub>3</sub> O <sub>4</sub> nanocrystals@MnO <sub>2</sub> nanowires shish-kebab structures with enhanced triethylamine sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127358.	7.8	36
13	MOF-derived Co <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> p-n hollow cubes for improved acetone sensing characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113869.	2.7	26
14	Enhanced ethanol sensing performance using Co <sub>3</sub> O <sub>4</sub> @ZnSnO <sub>3</sub> arrays prepared on alumina substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113825.	2.7	20
15	Density-dependent of gas-sensing properties of Co <sub>3</sub> O <sub>4</sub> nanowire arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113956.	2.7	20
16	Pd/N heterointerface-determined acetone sensing characteristics of $\gamma$ -MoO <sub>3</sub> @NiO core@shell nanobelts. <i>CrystEngComm</i> , 2019, 21, 5834-5844.	2.6	27
17	Design of NiCo <sub>2</sub> O <sub>4</sub> porous nanosheets/ $\gamma$ -MoO <sub>3</sub> nanorods heterostructures for ppb-level ethanol detection. <i>Powder Technology</i> , 2019, 345, 633-642.	4.2	25
18	Highly dispersed Pt nanoparticles on hierarchical titania nanoflowers with {010} facets for gas sensing and photocatalysis. <i>Journal of Materials Science</i> , 2019, 54, 6826-6840.	3.7	12

#	ARTICLE	IF	CITATIONS
19	Synthesis and gas-sensing properties of ZnO@NiCo <sub>2</sub> O <sub>4</sub> core@shell nanofibers. Materials Research Bulletin, 2019, 114, 1-9.	5.2	18
20	A systematic study on the crystal facets-dependent gas sensing properties of anatase TiO <sub>2</sub> with designed {010}, {101} and {001} facets. Ceramics International, 2019, 45, 6282-6290.	4.8	28
21	2D ultra-thin WO <sub>3</sub> nanosheets with dominant {002} crystal facets for high-performance xylene sensing and methyl orange photocatalytic degradation. Journal of Alloys and Compounds, 2019, 783, 848-854.	5.5	64
22	Active {111}-faceted ultra-thin NiO single-crystalline porous nanosheets supported highly dispersed Pt nanoparticles for synergetic enhancement of gas sensing and photocatalytic performance. Applied Surface Science, 2019, 471, 124-133.	6.1	14
23	High selectivity of sulfur-doped SnO <sub>2</sub> in NO <sub>2</sub> detection at lower operating temperatures. Nanoscale, 2018, 10, 20761-20771.	5.6	68
24	WO <sub>3</sub> nanofibers anchored by porous NiCo <sub>2</sub> O <sub>4</sub> nanosheets for xylene detection. Ceramics International, 2018, 44, 21717-21724.	4.8	29
25	Tuning strain and photoluminescence of confined Au nanoparticles by hydrogen passivation. RSC Advances, 2017, 7, 6875-6879.	3.6	8
26	Fabrication of novel flower-like Co <sub>3</sub> O <sub>4</sub> structures assembled by single-crystalline porous nanosheets for enhanced xylene sensing properties. Journal of Alloys and Compounds, 2017, 706, 116-125.	5.5	49
27	Single-crystalline porous nanosheets assembled hierarchical Co <sub>3</sub> O <sub>4</sub> microspheres for enhanced gas-sensing properties to trace xylene. Sensors and Actuators B: Chemical, 2017, 246, 68-77.	7.8	60
28	Improved ethanol gas sensing performances of a ZnO/Co <sub>3</sub> O <sub>4</sub> composite induced by its flytrap-like structure. Physical Chemistry Chemical Physics, 2017, 19, 29601-29607.	2.8	31
29	High-energy {001} crystal facets and surface fluorination engineered gas sensing properties of anatase titania nanocrystals. Applied Surface Science, 2017, 423, 602-610.	6.1	38
30	Core-shell-structured hollow carbon nanofiber@nitrogen-doped porous carbon composite materials as anodes for advanced sodium-ion batteries. Journal of Materials Science, 2017, 52, 2356-2365.	3.7	12
31	Effect of Grain-Boundaries in NiO Nanosheet Layers Room-Temperature Sensing Mechanism under NO <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 17930-17939.	3.1	60
32	Interface Bonds Determined Gas-Sensing of SnO <sub>2</sub> @SnS <sub>2</sub> Hybrids to Ammonia at Room Temperature. ACS Applied Materials & Interfaces, 2015, 7, 11359-11368.	8.0	191
33	Hierarchical porous SnO <sub>2</sub> micro-rods topologically transferred from tin oxalate for fast response sensors to trace formaldehyde. Sensors and Actuators B: Chemical, 2014, 190, 585-592.	7.8	87