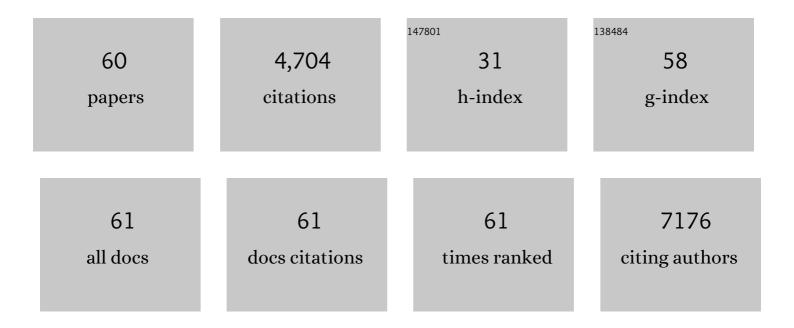
## Wen Xiao

## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. Nano Energy, 2018, 48, 73-80.	16.0	608
2	In Situ Grown Epitaxial Heterojunction Exhibits Highâ€Performance Electrocatalytic Water Splitting. Advanced Materials, 2018, 30, e1705516.	21.0	375
3	Oxygen Vacancy Promoted O <sub>2</sub> Activation over Perovskite Oxide for Low-Temperature CO Oxidation. ACS Catalysis, 2019, 9, 9751-9763.	11.2	296
4	Dualâ€Functional N Dopants in Edges and Basal Plane of MoS <sub>2</sub> Nanosheets Toward Efficient and Durable Hydrogen Evolution. Advanced Energy Materials, 2017, 7, 1602086.	19.5	286
5	Metallic Ni <sub>3</sub> N nanosheets with exposed active surface sites for efficient hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 17363-17369.	10.3	233
6	Activating and Optimizing Activity of CoS <sub>2</sub> for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. ACS Energy Letters, 2017, 2, 1022-1028.	17.4	229
7	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Zn–Air Battery and Water Splitting. Nano-Micro Letters, 2019, 11, 2.	27.0	179
8	Low temperature propane oxidation over Co3O4 based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. Applied Catalysis B: Environmental, 2016, 180, 150-160.	20.2	174
9	Selfâ€Powered Water‧plitting Devices by Core–Shell NiFe@Nâ€Graphiteâ€Based Zn–Air Batteries. Advanc Functional Materials, 2018, 28, 1706928.	ed 14.9	155
10	Interfacial sp C–O–Mo Hybridization Originated High-Current Density Hydrogen Evolution. Journal of the American Chemical Society, 2021, 143, 8720-8730.	13.7	152
11	Enhanced oxygen evolution reaction by Co-O-C bonds in rationally designed Co3O4/graphene nanocomposites. Nano Energy, 2017, 33, 445-452.	16.0	131
12	Activating Basal Planes and Sâ€Terminated Edges of MoS <sub>2</sub> toward More Efficient Hydrogen Evolution. Advanced Functional Materials, 2017, 27, 1604943.	14.9	131
13	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe <sub>3</sub> O <sub>4</sub> Nanodisc. Advanced Functional Materials, 2015, 25, 812-820.	14.9	121
14	Synthesis of nonstoichiometric zinc ferrite nanoparticles with extraordinary room temperature magnetism and their diverse applications. Journal of Materials Chemistry C, 2013, 1, 2875.	5.5	115
15	Dualâ€Native Vacancy Activated Basal Plane and Conductivity of MoSe <sub>2</sub> with Highâ€Efficiency Hydrogen Evolution Reaction. Small, 2018, 14, e1704150.	10.0	114
16	Boosting catalytic propane oxidation over PGM-free Co3O4 nanocrystal aggregates through chemical leaching: A comparative study with Pt and Pd based catalysts. Applied Catalysis B: Environmental, 2018, 226, 585-595.	20.2	113
17	Electronic structure modulation of NiS <sub>2</sub> by transition metal doping for accelerating the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 4971-4976.	10.3	93
18	Robust 3-D configurated metal oxide nano-array based monolithic catalysts with ultrahigh materials usage efficiency and catalytic performance tunability. Nano Energy, 2013, 2, 873-881.	16.0	76

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19	Synthesis of Ferromagnetic Fe <sub>0.6</sub> Mn <sub>0.4</sub> O Nanoflowers as a New Class of Magnetic Theranostic Platform for In Vivo T <sub>1</sub> â€T <sub>2</sub> Dualâ€Mode Magnetic Resonance Imaging and Magnetic Hyperthermia Therapy. Advanced Healthcare Materials, 2016, 5, 2092-2104.	7.6	75
20	Ar <sup>2+</sup> Beam Irradiation-Induced Multivancancies in MoSe <sub>2</sub> Nanosheet for Enhanced Electrochemical Hydrogen Evolution. ACS Energy Letters, 2018, 3, 2167-2172.	17.4	73
21	Transition-metal-doped NiSe2 nanosheets towards efficient hydrogen evolution reactions. Nano Research, 2018, 11, 6051-6061.	10.4	72
22	Size dependent magnetic hyperthermia of octahedral Fe <sub>3</sub> O <sub>4</sub> nanoparticles. RSC Advances, 2015, 5, 76764-76771.	3.6	64
23	Extremely low frequency alternating magnetic field–triggered and MRI–traced drug delivery by optimized magnetic zeolitic imidazolate framework-90 nanoparticles. Nanoscale, 2016, 8, 3259-3263.	5.6	63
24	Copper dopants improved the hydrogen evolution activity of earth-abundant cobalt pyrite catalysts by activating the electrocatalytically inert sulfur sites. Journal of Materials Chemistry A, 2017, 5, 17601-17608.	10.3	61
25	Nanoscale Magnetization Reversal Caused by Electric Field-Induced Ion Migration and Redistribution in Cobalt Ferrite Thin Films. ACS Nano, 2015, 9, 4210-4218.	14.6	60
26	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO <sub>2</sub> for Excellent Low-Temperature CO Oxidation. ACS Applied Materials & amp; Interfaces, 2020, 12, 7091-7101.	8.0	51
27	Intrinsic and interfacial effect of electrode metals on the resistive switching behaviors of zinc oxide films. Nanotechnology, 2014, 25, 425204.	2.6	49
28	Solar-driven efficient methane catalytic oxidation over epitaxial ZnO/La0.8Sr0.2CoO3 heterojunctions. Applied Catalysis B: Environmental, 2020, 265, 118469.	20.2	44
29	Bifunctional Electrocatalytic Activity of Nitrogen-Doped NiO Nanosheets for Rechargeable Zinc–Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 30865-30871.	8.0	41
30	IMPROVED CAPACITIVE BEHAVIOR OF <font>MnO</font> <sub>2</sub> THIN FILMS PREPARED BY ELECTRODEPOSITION ON THE PT SUBSTRATE WITH A <font>MnO</font> <sub>x</sub> BUFFER LAYER. Functional Materials Letters, 2009, 02, 13-18.	1.2	36
31	High catalytic activity of oxygen-induced (200) surface of Ta2O5 nanolayer towards durable oxygen evolution reaction. Nano Energy, 2016, 25, 60-67.	16.0	36
32	Controllable and Stable Quantized Conductance States in a Pt/HfO <i><sub>x</sub></i> /ITO Memristor. Advanced Electronic Materials, 2020, 6, 1901055.	5.1	31
33	Controllable synthesis of ZnO nanoparticles with high intensity visible photoemission and investigation of its mechanism. Nanotechnology, 2013, 24, 175702.	2.6	29
34	Mechanical-Agitation-Assisted Growth of Large-Scale and Uniform ZnO Nanorod Arrays within 3D Multichannel Monolithic Substrates. Crystal Growth and Design, 2013, 13, 3657-3664.	3.0	27
35	Pre-surface leached cordierite honeycombs for MnxCo3-xO4 nano-sheet array integration with enhanced hydrocarbons combustion. Catalysis Today, 2019, 320, 196-203.	4.4	26
36	Phase-transfer induced room temperature ferromagnetic behavior in 1T@2H-MoSe2 nanosheets. Scientific Reports, 2017, 7, 45307.	3.3	23

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37	Molecular O <sub>2</sub> Activation over Cu(I)-Mediated C≡N Bond for Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 17167-17174.	8.0	22
38	Hydrogen Evolution Catalyzed by a Molybdenum Sulfide Two-Dimensional Structure with Active Basal Planes. ACS Applied Materials & Interfaces, 2018, 10, 22042-22049.	8.0	22
39	Magnetic-field-assisted synthesis of magnetite nanoparticles via thermal decomposition and their hyperthermia properties. CrystEngComm, 2015, 17, 3652-3658.	2.6	21
40	Achieving a high magnetization in sub-nanostructured magnetite films by spin-flipping of tetrahedral Fe3+ cations. Nano Research, 2015, 8, 2935-2945.	10.4	21
41	Oxygen deficiency and cooling field driven vertical hysteretic shift in epitaxial SrRuO3/SrTiO3 heterostructures. Applied Physics Letters, 2017, 111, .	3.3	20
42	Magnetic anisotropy modulation of epitaxial Fe3O4 films on MgO substrates. Journal of Applied Physics, 2015, 117, .	2.5	19
43	Molecular Insights into NO-Promoted Sulfate Formation on Model TiO <sub>2</sub> Nanoparticles with Different Exposed Facets. Environmental Science & Technology, 2018, 52, 14110-14118.	10.0	19
44	High Lithium Insertion Voltage Singleâ€Crystal H <sub>2</sub> Ti <sub>12</sub> O <sub>25</sub> Nanorods as a Highâ€Capacity and Highâ€Rate Lithiumâ€ion Battery Anode Material. ChemSusChem, 2018, 11, 299-310.	6.8	18
45	Electrode-controlled confinement of conductive filaments in a nanocolumn embedded symmetric–asymmetric RRAM structure. Journal of Materials Chemistry C, 2020, 8, 1577-1582.	5.5	16
46	Mesoporous Perovskite Nanotubeâ€Array Enhanced Metallicâ€State Platinum Dispersion for Low Temperature Propane Oxidation. ChemCatChem, 2018, 10, 2184-2189.	3.7	14
47	Stable zinc-blende ZnO thin films: formation and physical properties. Journal of Materials Science, 2015, 50, 28-33.	3.7	13
48	Shape-dependent microwave permeability of Fe <sub>3</sub> O <sub>4</sub> nanoparticles: a combined experimental and theoretical study. Nanotechnology, 2015, 26, 265704.	2.6	11
49	Novel room-temperature spin-valve-like magnetoresistance in magnetically coupled nano-column Fe <sub>3</sub> O <sub>4</sub> /Ni heterostructure. Nanoscale, 2016, 8, 15737-15743.	5.6	9
50	Realization of "single-atom ferromagnetism―in graphene by Cu–N4 moieties anchoring. Applied Physics Letters, 2020, 116, .	3.3	9
51	High-Magnetization Tetragonal Ferrite-Based Films Induced by Carbon and Oxygen Vacancy Pairs. ACS Applied Materials & Interfaces, 2019, 11, 1049-1056.	8.0	5
52	One-dimensional fossil-like <i>γ</i> -Fe <sub>2</sub> O <sub>3</sub> @carbon nanostructure: preparation, structural characterization and application as adsorbent for fast and selective recovery of gold ions from aqueous solution. Nanotechnology, 2016, 27, 415701.	2.6	4
53	xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow><mml:mi>SrRu</mml:mi><mml:msub><mml: mathvariant="normal"&gt;O<mml:mn>3</mml:mn></mml: </mml:msub></mml:mrow> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal"&gt;L<mml:msub><mml:mi< td=""><td>:mi 2.4</td><td>4</td></mml:mi<></mml:msub></mml:mi </mml:msub></mml:math>	:mi 2.4	4
54	mathyariant="normal">a <mml:mrow><mml:mn>0.7</mml:mn></mml:mrow> <td>0.7</td> <td>3</td>	0.7	3

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55	Facile synthesis of waterâ€dispersible magnetite nanorings from surfactantâ€free hematite nanorings. Micro and Nano Letters, 2016, 11, 814-818.	1.3	3
56	Economical Fe-doped Ta2O5 electrocatalyst toward efficient oxygen evolution: a combined experimental and first-principles study. MRS Communications, 2017, 7, 563-569.	1.8	3
57	A Facile Chemical Solutionâ€Based Method for Epitaxial Growth of Thick Ferrite Films. Advanced Electronic Materials, 2015, 1, 1500102.	5.1	2
58	L10-FePt films fabricated by wet-chemical route. Thin Solid Films, 2015, 589, 649-654.	1.8	1
59	Nano-Array Catalysts for Energy and Environmental Catalysis. , 2015, , 339-370.		1
60	7. Recovery of valuable metals from e-waste via applications of nanomaterials. , 2019, , 234-260.		1