

# Bo Yu

## List of Publications by Year in descending order

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45  
papers

2,417  
citations

257450

24  
h-index

265206

42  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2604  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Solid Oxide Electrolysis Cell with Micro/Nano Channel Anode for Electrolysis at Ultra-High Current Density over 5 A cm <sup>-2</sup> . <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	17
2	Heterointerface engineering for enhancing the electrochemical performance of solid oxide cells. <i>Energy and Environmental Science</i> , 2020, 13, 53-85.	30.8	178
3	Enhancing CO <sub>2</sub> catalytic activation and direct electroreduction on in-situ exsolved Fe/MnOx nanoparticles from (Pr,Ba) <sub>2</sub> Mn <sub>2-y</sub> FeyO <sub>5+δ</sub> layered perovskites for SOEC cathodes. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118389.	20.2	58
4	Enhanced oxygen reduction kinetics by a porous heterostructured cathode for intermediate temperature solid oxide fuel cells. <i>Energy and AI</i> , 2020, 2, 100027.	10.6	17
5	Directly visualizing and exploring local heterointerface with high electro-catalytic activity. <i>Nano Energy</i> , 2020, 78, 105236.	16.0	31
6	Measurement of oxygen reduction/evolution kinetics enhanced (La,Sr)CoO <sub>3</sub> /(La,Sr) <sub>2</sub> CoO <sub>4</sub> hetero-structure oxygen electrode in operating temperature for SOCs. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19102-19112.	7.1	7
7	Extrinsic Fe <sup>3+</sup> Stabilized La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-δ</sub> Thin Film Cathode for Enhanced Electrochemical Performance. <i>ECS Transactions</i> , 2019, 91, 1551-1558.	0.5	1
8	Controlling crystal orientation in multilayered heterostructures toward high electro-catalytic activity for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 62, 521-529.	16.0	35
9	Enhancing coking resistance of Ni/YSZ electrodes: In situ characterization, mechanism research, and surface engineering. <i>Nano Energy</i> , 2019, 62, 64-78.	16.0	75
10	Uncovering the Effect of Lattice Strain and Oxygen Deficiency on Electrocatalytic Activity of Perovskite Cobaltite Thin Films. <i>Advanced Science</i> , 2019, 6, 1801898.	11.2	136
11	High-Temperature Electrochemical Process of CO <sub>2</sub> Conversion with SOCs 6. , 2019, , 187-201.		0
12	Mechanochemical formation of chlorinated phenoxy radicals and their roles in the remediation of hexachlorobenzene contaminated soil. <i>Journal of Hazardous Materials</i> , 2018, 352, 172-181.	12.4	40
13	Impact of Strain-Induced Changes in Defect Chemistry on Catalytic Activity of Nd <sub>2</sub> NiO <sub>4+δ</sub> Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36926-36932.	8.0	31
14	Micro/Nanohoneycomb Solid Oxide Electrolysis Cell Anodes with Ultralarge Current Tolerance. <i>Advanced Energy Materials</i> , 2018, 8, 1802203.	19.5	40
15	Improving the Electrocatalytic Activity and Durability of the La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> Cathode by Surface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39785-39793.	8.0	71
16	Segregation Induced Self-Assembly of Highly Active Perovskite for Rapid Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1801893.	19.5	30
17	Oxygen reduction kinetic enhancements of intermediate-temperature SOFC cathodes with novel Nd <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3-δ</sub> /Nd <sub>0.8</sub> Sr <sub>1.2</sub> CoO <sub>4±δ</sub> heterointerfaces. <i>Nano Energy</i> , 2018, 51, 711-720.	16.0	60
18	Mechanochemical mechanism of rapid dechlorination of hexachlorobenzene. <i>Journal of Hazardous Materials</i> , 2017, 333, 116-127.	12.4	37

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19	A review of high temperature co-electrolysis of $H_2O$ and $CO_2$ to produce sustainable fuels using solid oxide electrolysis cells (SOECs): advanced materials and technology. <i>Chemical Society Reviews</i> , 2017, 46, 1427-1463.	38.1	515
20	$REBaCo_2O_{5+\delta}$ (RE = Pr, Nd, and Gd) as promising oxygen electrodes for intermediate-temperature solid oxide electrolysis cells. <i>RSC Advances</i> , 2017, 7, 16332-16340.	3.6	25
21	Energy related $CO_2$ conversion and utilization: Advanced materials/nanomaterials, reaction mechanisms and technologies. <i>Nano Energy</i> , 2017, 40, 512-539.	16.0	221
22	Controlling cation segregation in perovskite-based electrodes for high electro-catalytic activity and durability. <i>Chemical Society Reviews</i> , 2017, 46, 6345-6378.	38.1	246
23	Electrochemical characterization and mechanism analysis of high temperature Co-electrolysis of $CO_2$ and $H_2O$ in a solid oxide electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29911-29920.	7.1	26
24	A novel electrolyte-electrode interface structure with directional micro-channel fabricated by freeze casting: A minireview. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29900-29910.	7.1	20
25	Thermodynamic analysis of the efficiency of high temperature co-electrolysis system for syngas production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15960-15969.	7.1	17
26	Fabrication of a high-performance nano-structured $Ln_{1-x}Sr_xMO_3$ (Ln = La, Sm; M = Mn, Co, Fe) SOC electrode through infiltration. <i>RSC Advances</i> , 2016, 6, 68379-68387.	3.6	15
27	Electrochemical performance of Co-containing mixed oxides as oxygen electrode materials for intermediate-temperature solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15952-15959.	7.1	19
28	Atmospheric-pressure microplasma as anode for rapid and simple electrochemical deposition of copper and cuprous oxide nanostructures. <i>RSC Advances</i> , 2015, 5, 62619-62623.	3.6	13
29	Characterization of $SrCo_{0.7}Fe_{0.2}Nb_{0.1}O_{3-\delta}$ cathode materials for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 273, 244-254.	7.8	24
30	Efficiency evaluation of high-temperature steam electrolytic systems coupled with different nuclear reactors. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12060-12068.	7.1	25
31	Preparation and electrochemical behavior of dense YSZ film for SOEC. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12074-12080.	7.1	27
32	Microstructural modification of the anode/electrolyte interface of SOEC for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12833-12838.	7.1	24
33	Investigation of single SOEC with BSCF anode and SDC barrier layer. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 837-842.	7.1	46
34	Preparation and Characterization of NiO/YSZ Cathode and BSCF/SDC Anode of SOEC for Hydrogen Production. <i>Advanced Materials Research</i> , 2011, 287-290, 2494-2499.	0.3	1
35	Electrochemical Performance and Microstructural Characterization of Solid Oxide Electrolysis Cells. <i>Advanced Materials Research</i> , 2011, 287-290, 2506-2510.	0.3	1
36	Effect of PMMA Pore Former on Hydrogen Production Performance of Solid Oxide Electrolysis Cells. <i>Wuji Cailiao Xuebao/International Journal of Inorganic Materials</i> , 2011, 26, 807-812.	1.3	2

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37	Preparation of NiOâ€“YSZ composite powder by a combustion method and its application for cathode of SOEC. International Journal of Hydrogen Energy, 2010, 35, 2852-2857.	7.1	33
38	Status and research of highly efficient hydrogen production through high temperature steam electrolysis at INET. International Journal of Hydrogen Energy, 2010, 35, 2829-2835.	7.1	70
39	Mechanism of oxygen releasing of copper ferrite in the formation of the corresponding oxygen-deficient compound. Science in China Series B: Chemistry, 2009, 52, 101-108.	0.8	21
40	Preparation of LSMâ€“YSZ composite powder for anode of solid oxide electrolysis cell and its activation mechanism. Journal of Power Sources, 2009, 190, 341-345.	7.8	104
41	Advance in highly efficient hydrogen production by high temperature steam electrolysis. Science in China Series B: Chemistry, 2008, 51, 289-304.	0.8	38
42	Studies on the preparation of active oxygen-deficient copper ferrite and its application for hydrogen production through thermal chemical water splitting. Science in China Series B: Chemistry, 2008, 51, 878-886.	0.8	6
43	Synthesis and crystallization kinetics of the novel ion exchanger Na <sub>4</sub> Ti <sub>4</sub> Si <sub>3</sub> O <sub>10</sub> for cesium removal. Journal of Radioanalytical and Nuclear Chemistry, 2007, 273, 109-114.	1.5	1
44	Cooperation Solidification of Cesium and Strontium. Advanced Materials Research, 0, 482-484, 58-61.	0.3	3
45	Solid oxide fuel cell system for automobiles. International Journal of Green Energy, 0, , 1-10.	3.8	9