

# Bo Yu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2936226/publications.pdf>

Version: 2024-02-01

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 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
2	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
3	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
4	Heterointerface engineering for enhancing the electrochemical performance of solid oxide cells. <i>Energy and Environmental Science</i> , 2020, 13, 53-85.	30.8	178
5	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
6	Preparation of LSM-YSZ composite powder for anode of solid oxide electrolysis cell and its activation mechanism. <i>Journal of Power Sources</i> , 2009, 190, 341-345.	7.8	104
7	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
8	Improving the Electrocatalytic Activity and Durability of the $La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-\delta}$ Cathode by Surface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39785-39793.	8.0	71
9	Status and research of highly efficient hydrogen production through high temperature steam electrolysis at INET. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2829-2835.	7.1	70
10	Oxygen reduction kinetic enhancements of intermediate-temperature SOFC cathodes with novel $Nd_{0.5}Sr_{0.5}CoO_{3-\delta}/Nd_{0.8}Sr_{1.2}CoO_{4-\delta}$ heterointerfaces. <i>Nano Energy</i> , 2018, 51, 711-720.	16.0	60
11	Enhancing $CO_2$ catalytic activation and direct electroreduction on in-situ exsolved Fe/MnOx nanoparticles from $(Pr,Ba)_2Mn_{2-y}Fe_yO_{5-\delta}$ layered perovskites for SOEC cathodes. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118389.	20.2	58
12	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
13	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
14	Micro/Nanohoneycomb Solid Oxide Electrolysis Cell Anodes with Ultralarge Current Tolerance. <i>Advanced Energy Materials</i> , 2018, 8, 1802203.	19.5	40
15	Advance in highly efficient hydrogen production by high temperature steam electrolysis. <i>Science in China Series B: Chemistry</i> , 2008, 51, 289-304.	0.8	38
16	Mechanochemical mechanism of rapid dechlorination of hexachlorobenzene. <i>Journal of Hazardous Materials</i> , 2017, 333, 116-127.	12.4	37
17	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
18	Preparation of NiO-YSZ composite powder by a combustion method and its application for cathode of SOEC. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2852-2857.	7.1	33

#	ARTICLE	IF	CITATIONS
19	Impact of Strain-Induced Changes in Defect Chemistry on Catalytic Activity of Nd <sub>2</sub> NiO <sub>4+</sub> <sup>+</sup> Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 36926-36932.	8.0	31
20	Directly visualizing and exploring local heterointerface with high electro-catalytic activity. Nano Energy, 2020, 78, 105236.	16.0	31
21	Segregation Induced Self-Assembly of Highly Active Perovskite for Rapid Oxygen Reduction Reaction. Advanced Energy Materials, 2018, 8, 1801893.	19.5	30
22	Preparation and electrochemical behavior of dense YSZ film for SOEC. International Journal of Hydrogen Energy, 2012, 37, 12074-12080.	7.1	27
23	Electrochemical characterization and mechanism analysis of high temperature Co-electrolysis of CO <sub>2</sub> and H <sub>2</sub> O in a solid oxide electrolysis cell. International Journal of Hydrogen Energy, 2017, 42, 29911-29920.	7.1	26
24	Efficiency evaluation of high-temperature steam electrolytic systems coupled with different nuclear reactors. International Journal of Hydrogen Energy, 2012, 37, 12060-12068.	7.1	25
25	REBaCo <sub>2</sub> O <sub>5+<math>\delta</math></sub> (RE = Pr, Nd, and Gd) as promising oxygen electrodes for intermediate-temperature solid oxide electrolysis cells. RSC Advances, 2017, 7, 16332-16340.	3.6	25
26	Microstructural modification of the anode/electrolyte interface of SOEC for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 12833-12838.	7.1	24
27	Characterization of SrCo <sub>0.7</sub> Fe <sub>0.2</sub> Nb <sub>0.1</sub> O <sub>3<math>\delta</math></sub> cathode materials for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2015, 273, 244-254.	7.8	24
28	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
29	A novel electrolyte-electrode interface structure with directional micro-channel fabricated by freeze casting: A minireview. International Journal of Hydrogen Energy, 2017, 42, 29900-29910.	7.1	20
30	Electrochemical performance of Co-containing mixed oxides as oxygen electrode materials for intermediate-temperature solid oxide electrolysis cells. International Journal of Hydrogen Energy, 2016, 41, 15952-15959.	7.1	19
31	Thermodynamic analysis of the efficiency of high temperature co-electrolysis system for syngas production. International Journal of Hydrogen Energy, 2016, 41, 15960-15969.	7.1	17
32	Enhanced oxygen reduction kinetics by a porous heterostructured cathode for intermediate temperature solid oxide fuel cells. Energy and AI, 2020, 2, 100027.	10.6	17
33	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> . Advanced Energy Materials, 2022, 12, .	19.5	17
34	Fabrication of a high-performance nano-structured Ln <sub>1-x</sub> Sr <sub>x</sub> MO <sub>3<math>\delta</math></sub> (Ln = La, Sm; M = Mn, Co, Fe) SOC electrode through infiltration. RSC Advances, 2016, 6, 68379-68387.	3.6	15
35	Atmospheric-pressure microplasma as anode for rapid and simple electrochemical deposition of copper and cuprous oxide nanostructures. RSC Advances, 2015, 5, 62619-62623.	3.6	13
36	Solid oxide fuel cell system for automobiles. International Journal of Green Energy, 0, , 1-10.	3.8	9

#	ARTICLE	IF	CITATIONS
37	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. International Journal of Hydrogen Energy, 2019, 44, 19102-19112.	7.1	7
38	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
39	Cooperation Solidification of Cesium and Strontium. Advanced Materials Research, 0, 482-484, 58-61.	0.3	3
40	Effect of PMMA Pore Former on Hydrogen Production Performance of Solid Oxide Electrolysis Cells. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 807-812.	1.3	2
41	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
42	Preparation and Characterization of NiO/YSZ Cathode and BSCF/SDC Anode of SOEC for Hydrogen Production. Advanced Materials Research, 2011, 287-290, 2494-2499.	0.3	1
43	Electrochemical Performance and Microstructural Characterization of Solid Oxide Electrolysis Cells. Advanced Materials Research, 2011, 287-290, 2506-2510.	0.3	1
44	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. ECS Transactions, 2019, 91, 1551-1558.	0.5	1
45	High-Temperature Electrochemical Process of CO <sub>2</sub> Conversion with SOCs 6. , 2019, , 187-201.		0