Jaka Sunarso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

486 papers	31,999 citations	87 h-index	162 g-index
508 ext. papers	37,603 ext. citations	9.7 avg, IF	7.84 L-index

#	Paper	IF	Citations
486	Gypsum scaling mechanisms on hydrophobic membranes and its mitigation strategies in membrane distillation. *Journal of Membrane Science*, **2022**, 120297	9.6	0
485	Mechanically intensified and stabilized MXene membranes via the combination of graphene oxide for highly efficient osmotic power production. *Journal of Membrane Science*, **2022**, 647, 120280	9.6	2
484	SrCo0.4Fe0.4Zr0.1Y0.1O3-□A new CO2 tolerant cathode for proton-conducting solid oxide fuel cells. *Renewable Energy*, **2022**, 185, 8-16	8.1	1
483	The evolution of process design and control for ternary azeotropic separation: Recent advances in distillation and future directions. *Separation and Purification Technology*, **2022**, 284, 120292	8.3	3
482	Vacuum-assisted continuous flow electroless plating approach for high performance Pd membrane deposition on ceramic hollow fiber lumen. *Journal of Membrane Science*, **2022**, 645, 120207	9.6	2
481	Shaving electric bills with renewables? A multi-period pinch-based methodology for energy planning. *Energy*, **2022**, 239, 122320	7.9	0
480	Advances and future outlook in epoxy/graphene composites for anticorrosive applications. *Progress in Organic Coatings*, **2022**, 162, 106571	4.8	5
479	Control design for throughput improvement of fuel cell-integrated solar heated membrane desalination system. *Chemical Engineering and Processing: Process Intensification*, **2022**, 174, 108868	3.7	
478	ZIF-67 membranes supported on porous ZnO hollow fibers for hydrogen separation from gas mixtures. *Journal of Membrane Science*, **2022**, 120550	9.6	2
477	Low thermal-expansion and high proton uptake for protonic ceramic fuel cell cathode. *Journal of Power Sources*, **2022**, 530, 231321	8.9	2
476	Soybean meal-derived heteroatoms-doped porous carbons for supercapacitor electrodes. *Materials Chemistry and Physics*, **2022**, 284, 126055	4.4	0
475	Physicochemical and structural characterisation of oil palm trunks (OPT) hydrochar made via wet torrefaction. *Cleaner Engineering and Technology*, **2022**, 8, 100467	2.7	0
474	Novel scheme towards interfacial charge transfer between ZnInS and BiOBr for efficient photocatalytic removal of organics and chromium (VI) from water.. *Chemosphere*, **2022**, 134973	8.4	3
473	High-Temperature Oxygen Separation Using Dense Ceramic Membranes **2022**, 1725-1757		
472	A New Durable Surface Nanoparticles-Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere.. *Advanced Materials*, **2021**, e2106379	24	13
471	Scandium-doped barium ceria ferrites-based composite mixed conducting hollow fiber membranes for H2 and O2 permeation. *Journal of Industrial and Engineering Chemistry*, **2021**, 107, 100-100	6.3	0
470	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zinc-Air Batteries. *Small*, **2021**, e2105604	11	0

469	Non-metal fluorine doping in Ruddlesden-Popper perovskite oxide enables high-efficiency photocatalytic water splitting for hydrogen production. *Materials Today Energy*, **2021**, 100896	7	10
468	Advancements in Optimization and Control Techniques for Intensifying Processes. *Processes*, **2021**, 9, 2150	2.9	2
467	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. *Angewandte Chemie - International Edition*, **2021**, 61, e202110429	16.4	12
466	Bio-oil production from pyrolysis of oil palm biomass and the upgrading technologies: A review. *Carbon Resources Conversion*, **2021**, 4, 239-250	4.7	8
465	Near-infrared (NIR) light responsiveness of CuS/S□3N4 heterojunction photocatalyst with enhanced tetracycline degradation activity. *Ceramics International*, **2021**, 48, 2459-2459	5.1	2
464	Watermelon Peel-Derived Heteroatom-Doped Hierarchical Porous Carbon as a High-Performance Electrode Material for Supercapacitors. *ChemElectroChem*, **2021**, 8, 1196-1203	4.3	4
463	Towards data-driven process integration for renewable energy planning. *Current Opinion in Chemical Engineering*, **2021**, 31, 100665	5.4	5
462	Thermal-expansion offset for high-performance fuel cell cathodes. *Nature*, **2021**, 591, 246-251	50.4	97
461	Antiperovskite FeNNi2Co and FeNNi3 nanosheets as a non-enzymatic electrochemical sensor for highly sensitive detection of glucose. *Journal of Electroanalytical Chemistry*, **2021**, 884, 115072	4.1	0
460	A Direct -Butane Solid Oxide Fuel Cell Using Ba(ZrCeYYb)NiRuO Perovskite as the Reforming Layer. *ACS Applied Materials & Interfaces*, **2021**, 13, 20105-20113	9.5	7
459	SrCo0.8Ti0.1Ta0.1O3-□perovskite: A new highly active and durable cathode material for intermediate-temperature solid oxide fuel cells. *Composites Part B: Engineering*, **2021**, 213, 108726	10	13
458	Recent advances in functional oxides for high energy density sodium-ion batteries. *Materials Reports Energy*, **2021**, 1, 100022		10
457	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. *Advanced Functional Materials*, **2021**, 31, 2102089	15.6	29
456	A mini-review of noble-metal-free electrocatalysts for overall water splitting in non-alkaline electrolytes. *Materials Reports Energy*, **2021**, 1, 100024		8
455	Experimental measurement and correlation of phase equilibria of palmitic, stearic, oleic, linoleic, and linolenic acids in supercritical carbon dioxide. *Journal of Industrial and Engineering Chemistry*, **2021**, 97, 485-491	6.3	3
454	Nanocelluloses: Sources, Pretreatment, Isolations, Modification, and Its Application as the Drug Carriers. *Polymers*, **2021**, 13,	4.5	9
453	Engineering Charge Redistribution within Perovskite Oxides for Synergistically Enhanced Overall Water Splitting **2021**, 3, 1258-1265		4
452	Building Ruddlesden-Popper and Single Perovskite Nanocomposites: A New Strategy to Develop High-Performance Cathode for Protonic Ceramic Fuel Cells. *Small*, **2021**, 17, e2101872	11	6

451	Chlorine-anion doping induced multi-factor optimization in perovskties for boosting intrinsic oxygen evolution. *Journal of Energy Chemistry*, **2021**, 52, 115-120	12	34
450	Techno-economic analysis for biomass supply chain: A state-of-the-art review. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110164	16.2	34
449	A Highly Ordered Hydrophilic□Hydrophobic Janus Bi-Functional Layer with Ultralow Pt Loading and Fast Gas/Water Transport for Fuel Cells. *Energy and Environmental Materials*, **2021**, 4, 126-133	13	19
448	Carbon-based electrocatalysts for sustainable energy applications. *Progress in Materials Science*, **2021**, 116, 100717	42.2	71
447	Recent advances and perspectives of fluorite and perovskite-based dual-ion conducting solid oxide fuel cells. *Journal of Energy Chemistry*, **2021**, 57, 406-427	12	22
446	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. *Advanced Functional Materials*, **2021**, 31, 2008077	15.6	22
445	Nickel-doped BaCo0.4Fe0.4Zr0.1Y0.1O3-□as a new high-performance cathode for both oxygen-ion and proton conducting fuel cells. *Chemical Engineering Journal*, **2021**, 420, 127717	14.7	26
444	New perovskite membrane with improved sintering and self-reconstructed surface for efficient hydrogen permeation. *Journal of Membrane Science*, **2021**, 620, 118980	9.6	3
443	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. *Chemical Engineering Journal*, **2021**, 417, 128105	14.7	9
442	Development of nickel based cermet anode materials in solid oxide fuel cells □Now and future. *Materials Reports Energy*, **2021**, 1, 100003		12
441	Oxide-based precious metal-free electrocatalysts for anion exchange membrane fuel cells: from material design to cell applications. *Journal of Materials Chemistry A*, **2021**, 9, 3151-3179	13	7
440	Defects-rich porous carbon microspheres as green electrocatalysts for efficient and stable oxygen-reduction reaction over a wide range of pH values. *Chemical Engineering Journal*, **2021**, 406, 126883	14.7	31
439	High-Temperature Oxygen Separation Using Dense Ceramic Membranes **2021**, 1-33		
438	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. *Chemical Society Reviews*, **2021**, 50, 10116-10211	58.5	31
437	Elevated-temperature H2 separation using a dense electron and proton mixed conducting polybenzimidazole-based membrane with 2D sulfonated graphene. *Green Chemistry*, **2021**, 23, 3374-3385	10	8
436	SDC-SCFZ dual-phase ceramics: Structure, electrical conductivity, thermal expansion, and O2 permeability. *Journal of the American Ceramic Society*, **2021**, 104, 2268-2284	3.8	8
435	Wet torrefaction of empty fruit bunches (EFB) and oil palm trunks (OPT): Effects of process parameters on their physicochemical and structural properties. *South African Journal of Chemical Engineering*, **2021**, 35, 126-136	3.2	5
434	Review of oil palm-derived activated carbon for CO2 capture. *Carbon Letters*, **2021**, 31, 201-252	2.3	12

433	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. *Small*, **2021**, 17, e2007211	11	5
432	Interfacial La Diffusion in the CeO/LaFeO Hybrid for Enhanced Oxygen Evolution Activity. *ACS Applied Materials & Interfaces*, **2021**, 13, 2799-2806	9.5	12
431	Designing High-Valence Metal Sites for Electrochemical Water Splitting. *Advanced Functional Materials*, **2021**, 31, 2009779	15.6	67
430	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. *Applied Physics Reviews*, **2021**, 8, 011407	17.3	12
429	Cation-Deficient Perovskites for Clean Energy Conversion. *Accounts of Materials Research*, **2021**, 2, 477-488	7.9	20
428	Fundamental Understanding and Application of Ba0.5Sr0.5Co0.8Fe0.2O3 Perovskite in Energy Storage and Conversion: Past, Present, and Future. *Energy & Fuels*, **2021**, 35, 13585-13609	4.1	21
427	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. *Materials Research Bulletin*, **2021**, 140, 111315	5.1	5
426	Recent Progress on Structurally Ordered Materials for Electrocatalysis. *Advanced Energy Materials*, **2021**, 11, 2101937	21.8	23
425	Modeling of hydrated cations transport through 2D MXene (Ti3C2Tx) membranes for water purification. *Journal of Membrane Science*, **2021**, 631, 119346	9.6	9
424	Modeling and simulation study of oxygen permeation in La0.8Ca0.2Fe0.95O3- Ag hollow fiber membrane module. *Materials Today: Proceedings*, **2021**,	1.4	1
423	Overview of the factors affecting the performance of vanadium redox flow batteries. *Journal of Energy Storage*, **2021**, 41, 102857	7.8	6
422	Removal of heavy metal cations and co-existing anions in simulated wastewater by two separated hydroxylated MXene membranes under an external voltage. *Journal of Membrane Science*, **2021**, 638, 119697	9.6	7
421	Characterization of BiOBr/g-C3N4 heterostructures immobilized on flexible electrospun polyacrylonitrile nanofibers for photocatalytic applications. *Applied Surface Science*, **2021**, 569, 151011	6.7	5
420	Stochastic techno-economic evaluation model for biomass supply chain: A biomass gasification case study with supply chain uncertainties. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111644	16.2	2
419	Regulating the Interfacial Electron Density of LaSrMnCoO/RuO for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61098-61106	9.5	1
418	Thermogravimetric analyses (TGA) of three oil palm biomass pyrolysis: Kinetics and reaction mechanisms. *IOP Conference Series: Materials Science and Engineering*, **2020**, 778, 012100	0.4	0
417	A CO2-tolerant SrCo0.8Fe0.15Zr0.05O3 cathode for proton-conducting solid oxide fuel cells. *Journal of Materials Chemistry A*, **2020**, 8, 11292-11301	13	22
416	Monoclinic SrIrO3: An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. *Chemistry of Materials*, **2020**, 32, 4509-4517	9.6	38

415	High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. *Journal of Power Sources*, **2020**, 468, 228377	8.9	32
414	A new highly active and CO2-stable perovskite-type cathode material for solid oxide fuel cells developed from A- and B-site cation synergy. *Journal of Power Sources*, **2020**, 457, 227995	8.9	15
413	Microwave-assisted catalytic methane reforming: A review. *Applied Catalysis A: General*, **2020**, 599, 117620	5.1	22
412	Learning permeability and fluidisation concepts via open-ended laboratory experiments. *Education for Chemical Engineers*, **2020**, 32, 72-81	2.4	2
411	CO2-resistant SDC-SSAF oxygen selective dual-phase hollow fiber membranes. *Asia-Pacific Journal of Chemical Engineering*, **2020**, 15, e2528	1.3	3
410	Turning Detrimental Effect into Benefits: Enhanced Oxygen Reduction Reaction Activity of Cobalt-Free Perovskites at Intermediate Temperature CO-Induced Surface Activation. *ACS Applied Materials & Interfaces*, **2020**, 12, 16417-16425	9.5	10
409	Systematic Method to Synthesise Optimum Hydrogen Network for Integration of Pyrolysis-Based Bio-refinery and Existing Petroleum Refinery. *Process Integration and Optimization for Sustainability*, **2020**, 4, 309-324	2	0
408	Cu/ZnO Catalysts Derived from Bimetallic Metal-Organic Framework for Dimethyl Ether Synthesis from Syngas with Enhanced Selectivity and Stability. *Small*, **2020**, 16, e1906276	11	11
407	A Self-Assembled Hetero-Structured Inverse-Spinel and Anti-Perovskite Nanocomposite for Ultrafast Water Oxidation. *Small*, **2020**, 16, e2002089	11	28
406	Fuel cells that operate at 300 to 500 C. *Science*, **2020**, 369, 138-139	33.3	22
405	MATLAB-based project assessment in process modelling unit: A case study from Swinburne University of Technology Sarawak Campus. *Education for Chemical Engineers*, **2020**, 33, 17-26	2.4	2
404	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metal Air Batteries. *Energy and Environmental Materials*, **2020**, 3, 121-145	13	69
403	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. *Journal of Materials Chemistry A*, **2020**, 8, 6480-6486	13	19
402	Isothermal kinetic study of CO2 gasification of torrefied oil palm biomass. *Biomass and Bioenergy*, **2020**, 134, 105487	5.3	16
401	Comparative study on the performance of microwave-assisted plasma DRM in nitrogen and argon atmospheres at a low microwave power. *Journal of Industrial and Engineering Chemistry*, **2020**, 85, 118-129	6.3	5
400	Enhancing the oxygen reduction activity of PrBaCo2O5+ double perovskite cathode by tailoring the calcination temperatures. *International Journal of Hydrogen Energy*, **2020**, 45, 25996-26004	6.7	8
399	A Cobalt-Free Multi-Phase Nanocomposite as Near-Ideal Cathode of Intermediate-Temperature Solid Oxide Fuel Cells Developed by Smart Self-Assembly. *Advanced Materials*, **2020**, 32, e1906979	24	59
398	Dual-layer BaCe0.8Y0.2O3- Ce0.8Y0.2O2- /BaCe0.8Y0.2O3- Ni hollow fiber membranes for H2 separation. *Journal of Membrane Science*, **2020**, 601, 117801	9.6	14

397	Facile synthesis of synergistic Pt/(Co-N)@C composites as alternative oxygen-reduction electrode of PEMFCs with attractive activity and durability. *Composites Part B: Engineering*, **2020**, 193, 108012	10	13
396	Manipulating cation nonstoichiometry towards developing better electrolyte for self-humidified dual-ion solid oxide fuel cells. *Journal of Power Sources*, **2020**, 460, 228105	8.9	13
395	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. *Nature Communications*, **2020**, 11, 2002	17.4	166
394	Perovskite Materials in Electrocatalysis. *Materials Horizons*, **2020**, 209-250	0.6	2
393	Development of a techno-economic framework for natural gas dehydration via absorption using tri-ethylene glycol: A comparative study between DRIZO and other dehydration processes. *South African Journal of Chemical Engineering*, **2020**, 31, 17-24	3.2	3
392	Postsynthesis Oxygen Nonstoichiometric Regulation: A New Strategy for Performance Enhancement of Perovskites in Advanced Oxidation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 99-109	3.9	12
391	High-Performance Platinum-Perovskite Composite Bifunctional Oxygen Electrocatalyst for Rechargeable Zn□Air Battery. *Advanced Energy Materials*, **2020**, 10, 1903271	21.8	52
390	Optimization of ionic-liquid based electrolyte concentration for high-energy density graphene supercapacitors. *Applied Materials Today*, **2020**, 18, 100522	6.6	24
389	Realizing stable high hydrogen permeation flux through BaCo0.4Fe0.4Zr0.1Y0.1O3-□membrane using a thin Pd film protection strategy. *Journal of Membrane Science*, **2020**, 596, 117709	9.6	12
388	Tailoring reduction extent of flash-reduced graphene oxides for high performance supercapacitors. *Journal of Power Sources*, **2020**, 478, 228732	8.9	9
387	Electrolyte materials for intermediate-temperature solid oxide fuel cells. *Progress in Natural Science: Materials International*, **2020**, 30, 764-774	3.6	37
386	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. *Applied Physics Reviews*, **2020**, 7, 041304	17.3	14
385	Ruddlesden□Popper perovskites in electrocatalysis. *Materials Horizons*, **2020**, 7, 2519-2565	14.4	71
384	Synthesis, Characterization, Adsorption Isotherm, and Kinetic Study of Oil Palm Trunk-Derived Activated Carbon for Tannin Removal from Aqueous Solution. *ACS Omega*, **2020**, 5, 28673-28683	3.9	8
383	Efficient Water Splitting Actualized through an Electrochemistry-Induced Hetero-Structured Antiperovskite/(Oxy)Hydroxide Hybrid. *Small*, **2020**, 16, e2006800	11	13
382	Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zinc-Air Batteries. *ChemElectroChem*, **2020**, 7, 4949-4955	4.3	11
381	Zeolitic Imidazolate Framework-Derived Ordered Pt□e Intermetallic Electrocatalysts for High-Performance Zn-Air Batteries. *Energy & Fuels*, **2020**, 34, 11527-11535	4.1	15
380	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. *Energy & Fuels*, **2020**, 34, 10568-10582	4.1	16

379	High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. *Energy & Fuels*, **2020**, 34, 11464-11471	4.1	17
378	Emerging Strategies for Developing High-Performance Perovskite-Based Materials for Electrochemical Water Splitting. *Energy & Fuels*, **2020**, 34, 10547-10567	4.1	27
377	Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. *Energy & Fuels*, **2020**, 34, 15169-15194	4.1	63
376	Enabling efficient hydrogen-evolution reaction over perovskite oxide electrocatalysts through phosphorus promotion. *International Journal of Hydrogen Energy*, **2020**, 45, 24859-24869	6.7	10
375	A Function-Separated Design of Electrode for Realizing High-Performance Hybrid Zinc Battery. *Advanced Energy Materials*, **2020**, 10, 2002992	21.8	36
374	Non-precious-metal catalysts for alkaline water electrolysis: operando characterizations, theoretical calculations, and recent advances. *Chemical Society Reviews*, **2020**, 49, 9154-9196	58.5	147
373	Synthesis of Sustainable Circular Economy in Palm Oil Industry Using Graph-Theoretic Method. *Sustainability*, **2020**, 12, 8081	3.6	9
372	Triggering a Self-Sustaining Reduction of Graphenes Oxide for High-Performance Energy Storage Devices. *ACS Applied Nano Materials*, **2020**, 3, 9117-9126	5.6	2
371	Tuning the A-Site Cation Deficiency of La0.8Sr0.2FeO3-δ Perovskite Oxides for High-Efficiency Triiodide Reduction Reaction in Dye-Sensitized Solar Cells. *Energy & Fuels*, **2020**, 34, 11322-11329	4.1	7
370	Perowskitoxid-Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. *Angewandte Chemie*, **2020**, 132, 140-158	3.6	5
369	Perovskite Oxide Based Electrodes for High-Performance Photoelectrochemical Water Splitting. *Angewandte Chemie - International Edition*, **2020**, 59, 136-152	16.4	135
368	Single-step synthesized dual-layer hollow fiber membrane reactor for on-site hydrogen production through ammonia decomposition. *International Journal of Hydrogen Energy*, **2020**, 45, 7423-7432	6.7	10
367	Effects of alkali promoters on tri-metallic Co-Ni-Cu-based perovskite catalyst for higher alcohol synthesis from syngas. *Catalysis Today*, **2020**, 355, 26-34	5.3	10
366	Gasification of torrefied oil palm biomass in a fixed-bed reactor: Effects of gasifying agents on product characteristics. *Journal of the Energy Institute*, **2020**, 93, 711-722	5.7	26
365	Scandium and phosphorus co-doped perovskite oxides as high-performance electrocatalysts for the oxygen reduction reaction in an alkaline solution. *Journal of Materials Science and Technology*, **2020**, 39, 22-27	9.1	10
364	Characterization of La0.6Sr0.4CoO3-δ oxygen selective hollow fiber made from acetate precursor-derived powder. *Ceramics International*, **2020**, 46, 3744-3749	5.1	1
363	Oxygen permeation through single-phase perovskite membrane: Modeling study and comparison with the dual-phase membrane. *Separation and Purification Technology*, **2020**, 235, 116224	8.3	13
362	Cu/ZnO Catalysts: Cu/ZnO Catalysts Derived from Bimetallic Metal–Organic Framework for Dimethyl Ether Synthesis from Syngas with Enhanced Selectivity and Stability (Small 14/2020). *Small*, **2020**, 16, 2070074	11	

361	Fishbone-derived N-doped hierarchical porous carbon as an electrode material for supercapacitor. *Journal of Alloys and Compounds*, **2020**, 832, 154950	5.7	15
360	Unusual synergistic effect in layered Ruddlesden-Popper oxide enables ultrafast hydrogen evolution. *Nature Communications*, **2019**, 10, 149	17.4	116
359	Boosting the Activity of BaCo0.4Fe0.4Zr0.1Y0.1O3-δ Perovskite for Oxygen Reduction Reactions at Low-to-Intermediate Temperatures through Tuning B-Site Cation Deficiency. *Advanced Energy Materials*, **2019**, 9, 1902384	21.8	49
358	Chlorine-Doped Perovskite Oxide: A Platinum-Free Cathode for Dye-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 35641-35652	9.5	11
357	A New Sodium-ion-conducting Layered Perovskite Oxide as Highly Active and Sulfur Tolerant Electrocatalyst for Solid Oxide Fuel Cells. *Energy Procedia*, **2019**, 158, 1660-1665	2.3	3
356	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. *ACS Catalysis*, **2019**, 9, 9973-10011	13.1	269
355	Advances in three-dimensional graphene-based materials: configurations, preparation and application in secondary metal (Li, Na, K, Mg, Al)-ion batteries. *Energy and Environmental Science*, **2019**, 12, 2030-2053	35.4	113
354	Electrochemical performance and effect of moisture on Ba0.5Sr0.5Sc0.175Nb0.025Co0.8O3-δ oxide as a promising electrode for proton-conducting solid oxide fuel cells. *Applied Energy*, **2019**, 238, 344-350	10.7	23
353	Enhancement of oxygen evolution reaction activity and durability of Ba0.5Sr0.5Co0.8Fe0.2O3-δ by CO2 thermal treatment. *Journal of Materials Science and Technology*, **2019**, 35, 1184-1191	9.1	7
352	Improving hydrogen permeation and interface property of ceramic-supported graphene oxide membrane via embedding of silicalite-1 zeolite into Al2O3 hollow fiber. *Separation and Purification Technology*, **2019**, 227, 115712	8.3	8
351	Rationally designed Water-Insertable Layered Oxides with Synergistic Effect of Transition-Metal Elements for High-Performance Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2019**, 11, 25227-25235	9.5	16
350	An Intrinsically Conductive Phosphorus-Doped Perovskite Oxide as a New Cathode for High-Performance Dye-Sensitized Solar Cells by Providing Internal Conducting Pathways. *Solar Rrl*, **2019**, 3, 1900108	7.1	18
349	Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. *Trends in Chemistry*, **2019**, 1, 410-424	14.8	123
348	New reduced-temperature ceramic fuel cells with dual-ion conducting electrolyte and triple-conducting double perovskite cathode. *Journal of Materials Chemistry A*, **2019**, 7, 13265-13274	13	60
347	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1900883	24	161
346	Cobalt-Free Perovskite Cathodes for Solid Oxide Fuel Cells. *ChemElectroChem*, **2019**, 6, 3549-3569	4.3	36
345	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. *Journal of Materials Chemistry A*, **2019**, 7, 14222-14232	13	32
344	Searching General Sufficient-and-Necessary Conditions for Ultrafast Hydrogen-Evolving Electrocatalysis. *Advanced Functional Materials*, **2019**, 29, 1900704	15.6	65

343	Boosting the oxygen evolution reaction activity of a perovskite through introducing multi-element synergy and building an ordered structure. *Journal of Materials Chemistry A*, **2019**, 7, 9924-9932	13	39
342	Enhanced CO selectivity for reverse water-gas shift reaction using Ti4O7-doped SrCe0.9Y0.1O3-□ hollow fibre membrane reactor. *Canadian Journal of Chemical Engineering*, **2019**, 97, 1619-1626	2.3	6
341	Realizing Ultrafast Oxygen Evolution by Introducing Proton Acceptor into Perovskites. *Advanced Energy Materials*, **2019**, 9, 1900429	21.8	53
340	Comprehensive Kinetic Study on the Pyrolysis and Combustion Behaviours of Five Oil Palm Biomass by Thermogravimetric-Mass Spectrometry (TG-MS) Analyses. *Bioenergy Research*, **2019**, 12, 370-387	3.1	6
339	Oxygen selective perovskite hollow fiber membrane bundles. *Journal of Membrane Science*, **2019**, 581, 393-400	9.6	23
338	A highly sensitive perovskite oxide sensor for detection of p-phenylenediamine in hair dyes. *Journal of Hazardous Materials*, **2019**, 369, 699-706	12.8	20
337	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1803017	21.8	148
336	Super-Exchange Interaction Induced Overall Optimization in Ferromagnetic Perovskite Oxides Enables Ultrafast Water Oxidation. *Small*, **2019**, 15, e1903120	11	43
335	Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. *Chemistry of Materials*, **2019**, 31, 5919-5926	9.6	17
334	The Synergistic Effect Accelerates the Oxygen Reduction/Evolution Reaction in a Zn-Air Battery. *Frontiers in Chemistry*, **2019**, 7, 524	5	16
333	Characterization of Hierarchical Porous Carbons Made from Bean Curd via K2CO3 Activation as a Supercapacitor Electrode. *ChemElectroChem*, **2019**, 6, 4022-4030	4.3	13
332	Morphology, crystal structure and electronic state one-step co-tuning strategy towards developing superior perovskite electrocatalysts for water oxidation. *Journal of Materials Chemistry A*, **2019**, 7, 19228-19233	13	17
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