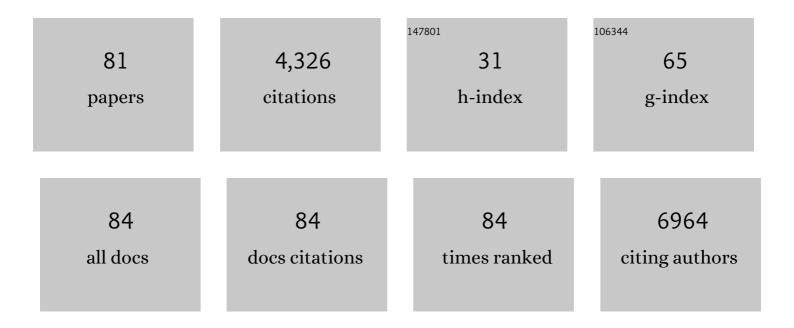
List of Publications by Year in descending order

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FRIC N COKER

#	Article	IF	CITATIONS
1	Oxygen Vacancy Enhanced Photocatalytic Activity of Pervoskite SrTiO <sub>3</sub> . ACS Applied Materials & Interfaces, 2014, 6, 19184-19190.	8.0	608
2	Synthesis of Platinum Nanowire Networks Using a Soft Template. Nano Letters, 2007, 7, 3650-3655.	9.1	328
3	Sr- and Mn-doped LaAlO3â^î^for solar thermochemical H2 and CO production. Energy and Environmental Science, 2013, 6, 2424.	30.8	323
4	Understanding catalysis in a multiphasic two-dimensional transition metal dichalcogenide. Nature Communications, 2015, 6, 8311.	12.8	260
5	Templateless Assembly of Molecularly Aligned Conductive Polymer Nanowires: A New Approach for Oriented Nanostructures. Chemistry - A European Journal, 2003, 9, 604-611.	3.3	207
6	Establishing the effects of mesoporous silica nanoparticle properties on in vivo disposition using imaging-based pharmacokinetics. Nature Communications, 2018, 9, 4551.	12.8	189
7	Hydrogen Production via Chemical Looping Redox Cycles Using Atomic Layer Deposition-Synthesized Iron Oxide and Cobalt Ferrites. Chemistry of Materials, 2011, 23, 2030-2038.	6.7	153
8	Investigation of La Sr1â^'Co M1â^'O3â^' (M = Mn, Fe) perovskite materials as thermochemical energy storage media. Solar Energy, 2015, 118, 451-459.	6.1	117
9	Water properties under nano-scale confinement. Scientific Reports, 2019, 9, 8246.	3.3	114
10	Role of Cu-Ion Doping in Cu-α-MnO <sub>2</sub> Nanowire Electrocatalysts for the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2014, 118, 17342-17350.	3.1	112
11	Electrodeposited Ni <sub>x</sub> Co <sub>3â^'x</sub> O <sub>4</sub> nanostructured films as bifunctional oxygen electrocatalysts. Chemical Communications, 2015, 51, 9511-9514.	4.1	107
12	Versatile Surface Functionalization of Metal–Organic Frameworks through Direct Metal Coordination with a Phenolic Lipid Enables Diverse Applications. Advanced Functional Materials, 2018, 28, 1705274.	14.9	90
13	Nonstoichiometric Perovskite Oxides for Solar Thermochemical H2 and CO Production. Energy Procedia, 2014, 49, 2009-2018.	1.8	89
14	Metal–Organic Framework Nanoparticle-Assisted Cryopreservation of Red Blood Cells. Journal of the American Chemical Society, 2019, 141, 7789-7796.	13.7	82
15	Doped calcium manganites for advanced high-temperature thermochemical energy storage. International Journal of Energy Research, 2016, 40, 280-284.	4.5	81
16	The effects of the silica source on the crystallization of zeolite NaX. Zeolites, 1993, 13, 645-653.	0.5	78
17	Porous One-Dimensional Nanostructures through Confined Cooperative Self-Assembly. Nano Letters, 2011, 11, 5196-5200.	9.1	76
18	Chapter 11 Ion exchange in zeolites. Studies in Surface Science and Catalysis, 2001, 137, 467-524.	1.5	68

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19	Predicting the solar thermochemical water splitting ability and reaction mechanism of metal oxides: a case study of the hercynite family of water splitting cycles. Energy and Environmental Science, 2015, 8, 3687-3699.	30.8	68
20	Ultra-thin enzymatic liquid membrane for CO2 separation and capture. Nature Communications, 2018, 9, 990.	12.8	62
21	Ferrite-YSZ composites for solar thermochemical production of synthetic fuels: in operando characterization of CO2 reduction. Journal of Materials Chemistry, 2011, 21, 10767.	6.7	58
22	Understanding the Connection between Nanoparticle Uptake and Cancer Treatment Efficacy using Mathematical Modeling. Scientific Reports, 2018, 8, 7538.	3.3	49
23	Microcalorimetric Investigation of H-ZSM-5 Zeolites Using an Ultrahigh-Vacuum System for Gas Adsorption. The Journal of Physical Chemistry, 1994, 98, 8053-8060.	2.9	48
24	Modular Metal–Organic Polyhedra Superassembly: From Molecular‣evel Design to Targeted Drug Delivery. Advanced Materials, 2019, 31, e1806774.	21.0	48
25	Metallic Phase Change Material Thermal Storage for Dish Stirling. Energy Procedia, 2015, 69, 726-736.	1.8	46
26	Formation of a Reversible, Intramolecular Main-Group Metal–CO <sub>2</sub> Adduct. Inorganic Chemistry, 2011, 50, 11288-11290.	4.0	44
27	Oxygen transport and isotopic exchange in iron oxide/YSZ thermochemically-active materials via splitting of C(18O)2 at high temperature studied by thermogravimetric analysis and secondary ion mass spectrometry. Journal of Materials Chemistry, 2012, 22, 6726.	6.7	39
28	Coking and regeneration of palladium-doped H3PW12O40/SiO2 catalysts. Catalysis Letters, 2000, 66, 53-57.	2.6	37
29	Templated growth of platinum nanowheels using the inhomogeneous reaction environment of bicelles. Physical Chemistry Chemical Physics, 2011, 13, 4846-4852.	2.8	37
30	Kinetics of ion exchange in quasi-crystalline aluminosilicate zeolite precursors. Microporous and Mesoporous Materials, 2005, 84, 171-178.	4.4	32
31	Zeolitic membranes. Current Opinion in Solid State and Materials Science, 1996, 1, 65-68.	11.5	31
32	Nanostructured Pt/C electrocatalysts with high platinum dispersions through zeolite-templating. Microporous and Mesoporous Materials, 2007, 101, 440-444.	4.4	28
33	Cobalt Ferrite in YSZ for Use as Reactive Material in Solar Thermochemical Water and Carbon Dioxide Splitting, Part I: Material Characterization. Jom, 2013, 65, 1670-1681.	1.9	27
34	Synthetic fossilization of soft biological tissues and their shape-preserving transformation into silica or electron-conductive replicas. Nature Communications, 2014, 5, 5665.	12.8	27
35	Solar thermal decoupled water electrolysis process I: Proof of concept. Chemical Engineering Science, 2012, 84, 372-380.	3.8	26
36	Adsorption of Benzene and Benzene Derivatives onto Zeolite H-Y Studied by Microcalorimetry. Langmuir, 2000, 16, 1205-1210.	3.5	25

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37	Structurally characterized magnesium carboxylates with tuned melting points. Polyhedron, 2004, 23, 1739-1747.	2.2	24
38	Zeolite-templated Pt/C electrocatalysts. Microporous and Mesoporous Materials, 2007, 104, 236-247.	4.4	24
39	Mechanically Encoded Cellular Shapes for Synthesis of Anisotropic Mesoporous Particles. Journal of the American Chemical Society, 2014, 136, 13138-13141.	13.7	24
40	Advancing Oxide Materials for Thermochemical Production of Solar Fuels. Energy Procedia, 2014, 49, 2019-2026.	1.8	24
41	Nuclear magnetic resonance studies of silicon(IV) complexes in aqueous solution—l. Tris-catecholato complexes. Polyhedron, 1990, 9, 813-823.	2.2	23
42	The synthesis of zeolites under micro-gravity conditions: a review. Microporous and Mesoporous Materials, 1998, 23, 119-136.	4.4	23
43	Synthesis and Characterization of Structurally Diverse Alkaline-Earth Salen Compounds for Subterranean Fluid Flow Tracking. Inorganic Chemistry, 2018, 57, 2402-2415.	4.0	23
44	Thermochemical Cycle of a Mixed Metal Oxide for Augmentation of Thermal Energy Storage in Solid Particles. Energy Procedia, 2014, 49, 762-771.	1.8	21
45	Zeolite ZSM-5 synthesized in space: catalysts with reduced external surface activity. Microporous and Mesoporous Materials, 2001, 46, 223-236.	4.4	20
46	ABO3 (A = La, Ba, Sr, K; B = Co, Mn, Fe) perovskites for thermochemical energy storage. AIP Conference Proceedings, 2016, , .	0.4	20
47	The preparation and characterization of novel Pt/C electrocatalysts with controlled porosity and cluster size. Journal of Materials Chemistry, 2007, 17, 3330.	6.7	19
48	Sorption of bulky aromatic molecules into zeolite NaX. Microporous and Mesoporous Materials, 1998, 22, 261-268.	4.4	16
49	lon exchange in beryllophosphate-G. Part 1.—lon-exchange equilibria. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 263-272.	1.7	15
50	Impact of copper on the performance and sulfur tolerance of barium-based NOx storage-reduction catalysts. Applied Catalysis B: Environmental, 2008, 78, 315-323.	20.2	13
51	Cobalt Ferrite in YSZ for Use as Reactive Material in Solar Thermochemical Water and Carbon Dioxide Splitting, Part II: Kinetic Modeling. Jom, 2013, 65, 1682-1693.	1.9	13
52	High Performance Reduction/Oxidation Metal Oxides for Thermochemical Energy Storage (PROMOTES). , 2016, , .		13
53	Solubility and water-softening properties of a crystalline layered sodium silicate, SKS-6. Journal of Materials Chemistry, 1993, 3, 523.	6.7	12
54	Computationally Accelerated Discovery and Experimental Demonstration of Gd0.5La0.5Co0.5Fe0.5O3 for Solar Thermochemical Hydrogen Production. Frontiers in Energy Research, 2021, 9, .	2.3	12

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55	Ion exchange in beryllophosphate-C. Part 2.—Ion-exchange kinetics. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 273-276.	1.7	11
56	Synthesis and Characterization of Ferrite Materials for Thermochemical CO2Splitting Using Concentrated Solar Energy. ACS Symposium Series, 2010, , 1-13.	0.5	11
57	Compositional and operational impacts on the thermochemical reduction of CO <sub>2</sub> to CO by iron oxide/yttria-stabilized zirconia. RSC Advances, 2021, 11, 1493-1502.	3.6	11
58	Zeolite synthesis in unstirred batch reactors II. Effect of non-uniform pre-mixing on the crystallization of zeolites A and X. Microporous Materials, 1995, 3, 637-646.	1.6	9
59	Novel high-temperature, high-vacuum, all-metal sample cells for microcalorimetric measurements of solids. Review of Scientific Instruments, 1997, 68, 4521-4524.	1.3	9
60	Experiments with Zeolites at the Secondary School Level: Experience from The Netherlands. Journal of Chemical Education, 1999, 76, 1417.	2.3	9
61	Using in-situ techniques to probe high-temperature reactions: thermochemical cycles for the production of synthetic fuels from CO2 and water. Powder Diffraction, 2012, 27, 117-125.	0.2	9
62	Morphology and electrical properties of high-speed flexography-printed graphene. Mikrochimica Acta, 2022, 189, 123.	5.0	9
63	Approaches for the Synthesis of Ultra-Large and Ultra-Small Zeolite Crystals. , 1998, , 121-155.		8
64	Preparation of zeolite X with low levels of iron impurity from reaction mixtures containing triethanolamine. The Journal of Physical Chemistry, 1993, 97, 6465-6469.	2.9	7
65	Zeolite synthesis in unstirred batch reactors I. Nuclear magnetic resonance imaging of non-uniform pre-mixing. Microporous Materials, 1995, 3, 623-636.	1.6	7
66	Properties of Zeolite A Obtained from Powdered Laundry Detergent. Journal of Chemical Education, 1999, 76, 469.	2.3	7
67	Precipitation of Spherical Magnesium(II) Cresolate Particles. Chemistry of Materials, 2003, 15, 309-319.	6.7	7
68	Considerations for the Design of a High-Temperature Particle Reoxidation Reactor for Extraction of Heat in Thermochemical Energy Storage Systems. , 2016, , .		7
69	Study of a Magnetically Stabilized Porous Structure for Thermochemical Water Splitting via TGA, High-Temperature-XRD, and SEM Analyses. Industrial & Engineering Chemistry Research, 2013, 52, 3683-3692.	3.7	6
70	Monitoring of CoS <sub>2</sub> reactions using high-temperature XRD coupled with gas chromatography (GC). Powder Diffraction, 2016, 31, 90-96.	0.2	6
71	A Thermogravimetric Temperature-Programmed Thermal Redox Protocol for Rapid Screening of Metal Oxides for Solar Thermochemical Hydrogen Production. Frontiers in Energy Research, 2022, 10, .	2.3	6
72	Formation of 6H-Ba <sub>3</sub> Ce <sub>0.75</sub> Mn <sub>2.25</sub> O <sub>9</sub> during Thermochemical Reduction of 12R-Ba <sub>4</sub> CeMn <sub>3</sub> O <sub>12</sub> : Identification of a Polytype in the Ba(Ce,Mn)O <sub>3</sub> Family. Inorganic Chemistry, 2022, 61, 6128-6137.	4.0	6

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73	lon exchange equilibria and kinetics in zeolites: influences of framework flexibility and charge density* *Dedicated to the memories of Richard M. Barrer (1910 – 1996) and Lovat V.C. Rees (1927 – 2006). Studies in Surface Science and Catalysis, 2007, 170, 110-120.	1.5	5
74	Modified Calcium Manganites for Thermochemical Energy Storage Applications. Frontiers in Energy Research, 2022, 10, .	2.3	4
75	Surface Functionalized Barium Titanate Nanoparticles: A Combined Experimental and Computational Study. ECS Journal of Solid State Science and Technology, 2022, 11, 063006.	1.8	4
76	High-field nuclear magnetic resonance of thallium in zeolites. Magnetic Resonance in Chemistry, 1993, 31, 1064-1071.	1.9	2
77	ToF-SIMS analysis of iron oxide particle oxidation by isotopic and multivariate analysis. Surface and Interface Analysis, 2013, 45, 320-323.	1.8	2
78	Anomalous Oxidative Diffusion in Titanium Pyrotechnic Powders. Propellants, Explosives, Pyrotechnics, 2017, 42, 293-299.	1.6	2
79	Zeolite-templated electrocatalysts for fuel cells. Studies in Surface Science and Catalysis, 2007, 170, 1552-1557.	1.5	0
80	Synthesis and Analysis of Cobalt Ferrite in YSZ for Use as Reactive Material in Solar Thermochemical Water and Carbon Dioxide Splitting. , 2013, , .		0
81	Near-ambient oxidation of melt-processed aluminum-mercury alloy compounds under air with controlled humidity. Journal of Materials Research, 0, , 1.	2.6	0