

Yanhao Dong

List of Publications by Year in descending order

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47
papers

2,793
citations

236925

25
h-index

214800

47
g-index

50
all docs

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docs citations

50
times ranked

2314
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressureless two-step sintering of ultrafine-grained refractory metals: Tungsten-rhenium and molybdenum. <i>Journal of Materials Science and Technology</i> , 2022, 126, 203-214.	10.7	13
2	Revitalizing interface in protonic ceramic cells by acid etch. <i>Nature</i> , 2022, 604, 479-485.	27.8	132
3	Acid-Clay Electrolyte for Wide-Temperature-Range and Long-Cycle Proton Batteries. <i>Advanced Materials</i> , 2022, 34, e2202063.	21.0	16
4	Enhanced mobility of cations and anions in the redox state: The polaronium mechanism. <i>Acta Materialia</i> , 2022, 232, 117941.	7.9	14
5	Transverse and Longitudinal Degradations in Ceramic Solid Electrolytes. <i>Chemistry of Materials</i> , 2022, 34, 5749-5765.	6.7	20
6	An Unbalanced Battle in Excellence: Revealing Effect of Ni/Co Occupancy on Water Splitting and Oxygen Reduction Reactions in Triple-Conducting Oxides for Protonic Ceramic Electrochemical Cells. <i>Small</i> , 2022, 18, .	10.0	16
7	Lithium Manganese Spinel Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000997.	19.5	177
8	Ultra-Uniform Nanocrystalline Materials via Two-Step Sintering. <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	41
9	Coarse-grained reduced Mo Ti ¹⁺ Nb ₂ O ₇ + anodes for high-rate lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 34, 574-581.	18.0	13
10	Chemical and structural origin of hole states in yttria-stabilized zirconia. <i>Acta Materialia</i> , 2021, 203, 116487.	7.9	15
11	Reactive boride infusion stabilizes Ni-rich cathodes for lithium-ion batteries. <i>Nature Energy</i> , 2021, 6, 362-371.	39.5	274
12	Ultra-high-voltage Ni-rich layered cathodes in practical Li metal batteries enabled by a sulfonamide-based electrolyte. <i>Nature Energy</i> , 2021, 6, 495-505.	39.5	323
13	Determining the Criticality of Li-Excess for Disordered-Rocksalt Li-Ion Battery Cathodes. <i>Advanced Energy Materials</i> , 2021, 11, 2100204.	19.5	31
14	Thermally Aged Li-Mn-O Cathode with Stabilized Hybrid Cation and Anion Redox. <i>Nano Letters</i> , 2021, 21, 4176-4184.	9.1	6
15	Orientation relationship of texture development in hot-rolled W during annealing. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 97, 105527.	3.8	3
16	Unveiling exceptional sinterability of ultrafine \pm -Al ₂ O ₃ nanopowders. <i>Journal of Materiomics</i> , 2021, 7, 837-844.	5.7	13
17	Towards pressureless sintering of nanocrystalline tungsten. <i>Acta Materialia</i> , 2021, 220, 117344.	7.9	18
18	Electrochemically Engineered, Highly Energy-Efficient Conversion of Ethane to Ethylene and Hydrogen below 550 °C in a Protonic Ceramic Electrochemical Cell. <i>ACS Catalysis</i> , 2021, 11, 12194-12202.	11.2	17

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19	Pressureless two-step sintering of ultrafine-grained tungsten. <i>Acta Materialia</i> , 2020, 186, 116-123.	7.9	48
20	FSI-inspired solvent and full fluorosulfonyl electrolyte for 4 V class lithium-metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 212-220.	30.8	198
21	Glass-Ceramic-Like Vanadate Cathodes for High-Rate Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903411.	19.5	18
22	Unveiling Nickel Chemistry in Stabilizing High-Voltage Cobalt-Rich Cathodes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1907903.	14.9	107
23	Sintering kinetics and microstructure evolution in \pm -Al ₂ O ₃ nanocrystalline ceramics: Insensitive to Fe impurity. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1505-1512.	5.7	15
24	Superconducting Cu/Nb nanolaminate by coded accumulative roll bonding and its helium damage characteristics. <i>Acta Materialia</i> , 2020, 197, 212-223.	7.9	41
25	Kinetic Rejuvenation of Li-Rich Li-Ion Battery Cathodes upon Oxygen Redox. <i>ACS Applied Energy Materials</i> , 2020, 3, 7931-7943.	5.1	12
26	Stabilized Co-Free Li-Rich Oxide Cathode Particles with An Artificial Surface Preconstruction. <i>Advanced Energy Materials</i> , 2020, 10, 2001120.	19.5	74
27	Potential jumps at transport bottlenecks cause instability of nominally ionic solid electrolytes in electrochemical cells. <i>Acta Materialia</i> , 2020, 199, 264-277.	7.9	38
28	Gradient-morph LiCoO ₂ single crystals with stabilized energy density above 3400 W h L ⁻¹ . <i>Energy and Environmental Science</i> , 2020, 13, 1865-1878.	30.8	118
29	Conversion-Type MnO Nanorods as a Surprisingly Stable Anode Framework for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2001026.	14.9	27
30	DC electrical degradation of YSZ: Voltage-controlled electrical metallization of a fast ion conducting insulator. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3178-3193.	3.8	17
31	Recent progress in Ti-based nanocomposite anodes for lithium ion batteries. <i>Journal of Advanced Ceramics</i> , 2019, 8, 1-18.	17.4	101
32	Gradient Li-rich oxide cathode particles immunized against oxygen release by a molten salt treatment. <i>Nature Energy</i> , 2019, 4, 1049-1058.	39.5	248
33	Mobility transition at grain boundaries in two-step sintered 8 mol% yttria-stabilized zirconia. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1857-1869.	3.8	28
34	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: Mapping electrode polarization and vacancy condensation in YSZ. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1058-1073.	3.8	58
35	Oxygen potential transition in mixed conducting oxide electrolyte. <i>Acta Materialia</i> , 2018, 156, 399-410.	7.9	31
36	Purely electronic nanometallic resistance switching random-access memory. <i>MRS Bulletin</i> , 2018, 43, 358-364.	3.5	15

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37	A computational study of yttria-stabilized zirconia: II. Cation diffusion. <i>Acta Materialia</i> , 2017, 126, 438-450.	7.9	52
38	A computational study of yttria-stabilized zirconia: I. Using crystal chemistry to search for the ground state on a glassy energy landscape. <i>Acta Materialia</i> , 2017, 127, 73-84.	7.9	25
39	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: I. grain growth study. <i>Journal of the American Ceramic Society</i> , 2017, 100, 876-886.	3.8	85
40	Thermal Runaway in Mold-Assisted Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2889-2894.	3.8	31
41	Onset Criterion for Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3624-3627.	3.8	86
42	Predicting the Onset of Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2333-2335.	3.8	65
43	YSZ fiber-reinforced porous YSZ ceramics with lowered thermal conductivity: Influence of the sintering temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 600, 76-81.	5.6	20
44	High-Strength Porous YSZ Ceramics Fabricated by TBA-Based Gelcasting with High Solid Loading Slurry. <i>Key Engineering Materials</i> , 2012, 512-515, 310-314.	0.4	0
45	Effect of YSZ fiber addition on microstructure and properties of porous YSZ ceramics. <i>Journal of Materials Science</i> , 2012, 47, 6326-6332.	3.7	11
46	A novel way to fabricate highly porous fibrous YSZ ceramics with improved thermal and mechanical properties. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2213-2218.	5.7	69
47	Numerical calculations of effective thermal conductivity of porous ceramics by image-based finite element method. <i>Frontiers of Materials Science</i> , 2012, 6, 79-86.	2.2	8