

# Ercan Aakmak

## List of Publications by Year in descending order

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18  
papers

336  
citations

933447

10  
h-index

888059

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23  
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23  
docs citations

23  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amphipathic Binder Integrating Ultrathin and Highly Ion-Conductive Sulfide Membrane for Cell-Level High-Energy-Density All-Solid-State Batteries. <i>Advanced Materials</i> , 2021, 33, e2105505.	21.0	52
2	Nanoporous Boron Nitride as Exceptionally Thermally Stable Adsorbent: Role in Efficient Separation of Light Hydrocarbons. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14506-14517.	8.0	41
3	Magnetic order and interactions in ferrimagnetic $\text{Mn}_2\text{O}_3$ . <i>Physical Review B</i> , 2017, 95, .	3.3	10
4	Surface-modified and oven-dried microfibrillated cellulose reinforced biocomposites: Cellulose network enabled high performance. <i>Carbohydrate Polymers</i> , 2021, 256, 117525.	10.2	37
5	High-temperature magnetostructural transition in van der Waals-layered $\text{Fe}_2\text{Te}$ . <i>Physical Review Materials</i> , 2017, 1, .	2.7	7
6	Properties of $\text{SiC}/\text{Si}$ made via binder jet 3D printing of SiC powder, carbon addition, and silicon melt infiltration. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5467-5478.	3.8	29
7	Mechanical Characterization of an Additively Manufactured Inconel 718 Theta-Shaped Specimen. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 971-980.	2.2	20
8	Feasibility Study of Making Metallic Hybrid Materials Using Additive Manufacturing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5035-5041.	2.2	13
9	High-Voltage Performance of Ni-Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. <i>ChemElectroChem</i> , 2019, 6, 5571-5580.	3.4	13
10	Relationships Between the Phase Transformation Kinetics, Texture Evolution, and Microstructure Development in a 304L Stainless Steel Under Biaxial Loading Conditions: Synchrotron X-ray and Electron Backscatter Diffraction Studies. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1860-1877.	2.2	11
11	Composition-Preserving Extraction and Characterization of Biomass Extrinsic and Intrinsic Inorganic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1599-1610.	6.7	11
12	Wear Mechanism Analysis of a New Rotary Shear Biomass Comminution System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11652-11660.	6.7	8
13	Enhanced thermoelectric performance driven by high-temperature phase transition in the phase change material $\text{Ge}_4\text{SbTe}_5$ . <i>Journal of Materials Research</i> , 2015, 30, 2605-2610.	2.6	7
14	On the nonlinear temperature dependence of residual stresses in solid oxide fuel cells. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1014-1022.	3.8	4
15	Compatibility of FeCrAlMo in Flowing Pb-Li at 600°C to 700°C. <i>Fusion Science and Technology</i> , 2021, 77, 761-765.	1.1	4
16	Alumina-based filters made via binder jet 3D printing of alumina powder, colloidal silica infiltration, and sintering. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1960-1968.	2.1	4
17	A Tracer Study on sCO <sub>2</sub> Corrosion with Multiple Oxygen-Bearing Impurities. <i>Oxidation of Metals</i> , 2021, 96, 571-587.	2.1	3
18	Testing and modeling of Functionally Graded Aluminum-Doped Zinc Oxide using SPS and discrete powder layers of varying composition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , 2100483.	1.8	1