

# Ercan Aakmak

## List of Publications by Year in descending order

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18  
papers

336  
citations

933447

10  
h-index

888059

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nonlinear temperature dependence of residual stresses in solid oxide fuel cells. Journal of the American Ceramic Society, 2021, 104, 1014-1022.	3.8	4
2	Surface-modified and oven-dried microfibrillated cellulose reinforced biocomposites: Cellulose network enabled high performance. Carbohydrate Polymers, 2021, 256, 117525.	10.2	37
3	Properties of SiCâ€Si made via binder jet 3D printing of SiC powder, carbon addition, and silicon melt infiltration. Journal of the American Ceramic Society, 2021, 104, 5467-5478.	3.8	29
4	A Tracer Study on sCO <sub>2</sub> Corrosion with Multiple Oxygen-Bearing Impurities. Oxidation of Metals, 2021, 96, 571-587.	2.1	3
5	Compatibility of FeCrAlMo in Flowing Pb-Li at 600Â°C to 700Â°C. Fusion Science and Technology, 2021, 77, 761-765.	1.1	4
6	Aluminaâ€based filters made via binder jet 3D printing of alumina powder, colloidal silica infiltration, and sintering. International Journal of Applied Ceramic Technology, 2021, 18, 1960-1968.	2.1	4
7	Wear Mechanism Analysis of a New Rotary Shear Biomass Comminution System. ACS Sustainable Chemistry and Engineering, 2021, 9, 11652-11660.	6.7	8
8	Amphipathic Binder Integrating Ultrathin and Highly Ionâ€Conductive Sulfide Membrane for Cellâ€Level Highâ€Energyâ€Density Allâ€Solidâ€State Batteries. Advanced Materials, 2021, 33, e2105505.	21.0	52
9	Composition-Preserving Extraction and Characterization of Biomass Extrinsic and Intrinsic Inorganic Compounds. ACS Sustainable Chemistry and Engineering, 2020, 8, 1599-1610.	6.7	11
10	Highâ€Voltage Performance of Niâ€Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. ChemElectroChem, 2019, 6, 5571-5580.	3.4	13
11	Feasibility Study of Making Metallic Hybrid Materials Using Additive Manufacturing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5035-5041.	2.2	13
12	Nanoporous Boron Nitride as Exceptionally Thermally Stable Adsorbent: Role in Efficient Separation of Light Hydrocarbons. ACS Applied Materials & Interfaces, 2017, 9, 14506-14517.	8.0	41
13	Magnetic order and interactions in ferrimagnetic $Mn_{1-x}Fe_x$ . Physical Review B, 2017, 95, .	3.3	40
14	High-temperature magnetostructural transition in van der Waals-layered $Fe_{1-x}Mn_x$ . Physical Review Materials, 2017, 1, .	2.2	11
15	Mechanical Characterization of an Additively Manufactured Inconel 718 Theta-Shaped Specimen. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 971-980.	2.2	20
16	Enhanced thermoelectric performance driven by high-temperature phase transition in the phase change material $Ge_4SbTe_5$ . Journal of Materials Research, 2015, 30, 2605-2610.	2.6	7
17	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. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1860-1877.	2.2	11
18	Testing and modeling of Functionallyâ€Graded Aluminumâ€Doped Zinc Oxide using SPS and discrete powder layers of varying composition. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100483.	1.8	1