Atul H Chokshi

List of Publications by Year
in descending order

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25 papers	812 citations	623734 14 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	683 citing authors

#	Article	IF	Citations
1	Grain Boundary Processes in Strengthening, Weakening, and Superplasticity. Advanced Engineering Materials, 2020, 22, 1900748.	3.5	40
2	Unique high-temperature deformation dominated by grain boundary sliding in heterogeneous necklace structure formed by dynamic recrystallization in HfNbTaTiZr BCC refractory high entropy alloy. Acta Materialia, 2020, 183, 64-77.	7.9	104
3	Initial stage sintering of polycrystalline spheres: A model and experiments. Materialia, 2020, 10, 100665.	2.7	7
4	Revealing the role of microstructure architecture on strength and ductility of Ni microwires by in-situ synchrotron X-ray diffraction. Scientific Reports, 2019, 9, 79.	3.3	9
5	High temperature deformation in fine grained high entropy alloys. Materials Chemistry and Physics, 2018, 210, 152-161.	4.0	35
6	The mechanical behavior of nacre across length scales. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 96-107.	3.1	20
7	Influence of yttria and zirconia additions on spark plasma sintering of alumina composites. Journal of Materials Research, 2015, 30, 1148-1156.	2.6	1
8	Size Effects on Strength in the Transition from Single-to-Polycrystalline Behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5671-5684.	2.2	9
9	Creep in nanocrystalline zirconia. Scripta Materialia, 2014, 86, 13-16.	5.2	15
10	A Constitutive Equation for Grain Boundary Sliding: An Experimental Approach. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 698-708.	2.2	18
11	Direct Characterizing of Densification Mechanisms during Spark Plasma Sintering. Journal of the American Ceramic Society, 2014, 97, 765-771.	3.8	36
12	The Influence of Titania on Creep in Superplastic Zirconia. Journal of the American Ceramic Society, 2010, 93, 1725-1731.	3.8	9
13	A Huge Effect of Weak dc Electrical Fields on Grain Growth in Zirconia. Journal of the American Ceramic Society, 2009, 92, 1856-1859.	3.8	149
14	Diffusion and Creep in Silicaâ€Doped Tetragonal Zirconia. Journal of the American Ceramic Society, 2009, 92, 3004-3013.	3.8	10
15	Porous Al2O3-Spinel Based Polycrystals That Resist Free-Sintering. Journal of the American Ceramic Society, 2008, 91, 3451-3454.	3.8	5
16	Synthesis of Bulk, Dense, Nanocrystalline Yttrium Aluminum Garnet from Amorphous Powders. Journal of the American Ceramic Society, 2007, 90, 3638-3641.	3.8	18
17	Lattice and grain boundary diffusion of cations in 3YTZ analyzed using SIMS. Acta Materialia, 2005, 53, 4975-4985.	7.9	88
18	Role of Diffusion Creep in a Superplastic Zirconia-Alumina Composite. Materials Science Forum, 2004, 447-448, 323-328.	0.3	3

#	Article	IF	Citations
19	The Influence of Grain Size on Deformation of Copper. Materials Science Forum, 2003, 426-432, 4393-4398.	0.3	3
20	Compression Creep Characteristics of 8â€mol%â€Yttriaâ€Stabilized Cubicâ€Zirconia. Journal of the American Ceramic Society, 2001, 84, 2625-2632.	3.8	29
21	On the emergence of new surface grains during superplastic deformation. Scripta Materialia, 2001, 44, 2611-2615.	5.2	13
22	The role of diffusion creep in the superplastic deformation of 3 mol% yttria stabilized tetragonal zirconia. Scripta Materialia, 2000, 42, 241-248.	5.2	26
23	Superplasticity in fine grained ceramics and ceramic composites: current understanding and future prospects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 166, 119-133.	5.6	133
24	The mechanical properties of the superplastic Al- 33 Pct Cu eutectic alloy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 2487-2496.	1.4	30
25	The Role of Grain Boundaries in the Deformation and Failure of a Superplastic Al-Li Alloy. Materials Research Society Symposia Proceedings, 1988, 122, 413.	0.1	2