

Adam J Stevenson

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,867
citations

567281

15
h-index

839539

18
g-index

21
all docs

21
docs citations

21
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong, tough and stiff bioinspired ceramics from brittle constituents. <i>Nature Materials</i> , 2014, 13, 508-514.	27.5	716
2	Toward Pore-Free Ceramics. <i>Science</i> , 2008, 322, 383-384.	12.6	190
3	Sintering and grain growth in SiO ₂ doped Nd:YAG. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1527-1534.	5.7	159
4	Hot Isostatic Pressing of Transparent Nd:YAG Ceramics. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1456-1463.	3.8	153
5	Effect of SiO ₂ on Densification and Microstructure Development in Nd:YAG Transparent Ceramics. <i>Journal of the American Ceramic Society</i> , 2011, 94, 1380-1387.	3.8	130
6	Fluoride materials for optical applications: Single crystals, ceramics, glasses, and glass-ceramics. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 1165-1173.	1.7	105
7	Mechanical properties and failure behavior of unidirectional porous ceramics. <i>Scientific Reports</i> , 2016, 6, 24326.	3.3	84
8	Effect of Yb ³⁺ concentration on optical properties of Yb:CaF ₂ transparent ceramics. <i>Optical Materials</i> , 2012, 34, 965-968.	3.6	65
9	Low temperature, transient liquid phase sintering of B ₂ O ₃ -SiO ₂ -doped Nd:YAG transparent ceramics. <i>Journal of Materials Research</i> , 2011, 26, 1151-1158.	2.6	52
10	Templated Grain Growth in Macroporous Materials. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1736-1742.	3.8	47
11	The effect of wall thickness distribution on mechanical reliability and strength in unidirectional porous ceramics. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 128-135.	6.1	31
12	Gas permeability of ice-templated, unidirectional porous ceramics. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 313-323.	6.1	31
13	Color center formation in vacuum sintered Nd ₃ Y ₃ Al ₅ O ₁₂ transparent ceramics. <i>Applied Physics Letters</i> , 2011, 98, 051906.	3.3	26
14	Fabrication of ice-templated tubes by rotational freezing: Microstructure, strength, and permeability. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2423-2429.	5.7	22
15	Parasitic Light Absorption Processes in Transparent Polycrystalline MgAl ₂ O ₄ and YAG. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3523-3529.	3.8	20
16	First-Principles Calculations and Thermodynamic Modeling of the Al ₂ O ₃ -Nd ₂ O ₃ System. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3355-3361.	3.8	12
17	First-Principles Thermochemistry and Thermodynamic Modeling of the Al ₂ O ₃ -Nd ₂ O ₃ -SiO ₂ -Y ₂ O ₃ Pseudoquaternary System. <i>Journal of the American Ceramic Society</i> , 2010, 93, 4158-4167.		
18	Last advances in Yb ³⁺ -doped CaF ₂ ceramics synthesis. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
19	Confocal Micro-Fluorescence and Raman Spectroscopy across Grain Boundaries in Transparent Nd ³⁺ :YAG Ceramic Laser Gain Media. , 2007, , .		0
20	EDX Analysis of Grain Boundary Segregation in 1 at% Nd Doped Polycrystalline YAG. Microscopy and Microanalysis, 2008, 14, 1420-1421.	0.4	0