Ivar E Reimanis

List of Publications by Citations

Source: https://exaly.com/author-pdf/1149605/ivar-e-reimanis-publications-by-citations.pdf
Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64 papers	1,194 citations	18 h-index	33 g-index
65 ext. papers	1,332 ext. citations	3.7 avg, IF	4.43 L-index

#	Paper	IF	Citations
64	Fifty Years of Research and Development Coming to Fruition; Unraveling the Complex Interactions during Processing of Transparent Magnesium Aluminate (MgAl2O4) Spinel. *Journal of the American Ceramic Society*, **2013**, 96, 3341-3365	3.8	165
63	A Review on the Sintering and Microstructure Development of Transparent Spinel (MgAl2O4). *Journal of the American Ceramic Society*, **2009**, 92, 1472-1480	3.8	157
62	Sintering Kinetics of a MgAl2O4 Spinel Doped with LiF. *Journal of the American Ceramic Society*, **2008**, 91, 444-450	3.8	65
61	Chemical Interaction Between LiF and MgAl2O4 Spinel During Sintering. *Journal of the American Ceramic Society*, **2007**, 90, 2038-2042	3.8	62
60	The Compelling Case for Indentation as a Functional Exploratory and Characterization Tool. *Journal of the American Ceramic Society*, **2015**, 98, 2671-2680	3.8	58
59	Stresses Occurring during Joining of Ceramics Using Preceramic Polymers. *Journal of the American Ceramic Society*, **2004**, 84, 2240-2244	3.8	57
58	Effect of Impurities and LiF Additive in Hot-Pressed Transparent Magnesium Aluminate Spinel. *International Journal of Applied Ceramic Technology*, **2013**, 10, E33-E48	2	51
57	Mechanical Behavior of MoSi2 Reinforced Si3N4Matrix Composites. *Journal of the American Ceramic Society*, **2005**, 80, 3070-3076	3.8	41
56	A reactive force field for lithium luminum silicates with applications to eucryptite phases. *Modelling and Simulation in Materials Science and Engineering*, **2012**, 20, 015002	2	39
55	Fabrication of Graded Nickel Alumina Composites with a Thermal-Behavior-Matching Process. *Journal of the American Ceramic Society*, **2004**, 83, 2147-2154	3.8	35
54	Role of Oxygen in Microstructure Development at Solid-State Diffusion-Bonded Cu/ Al2O3 Interfaces. *Journal of the American Ceramic Society*, **1994**, 77, 2036-2042	3.8	34
53	Influence of Cu2O and CuAlO2 Interphases on Crack Propagation at Cu/ Al2O3 Interfaces. *Journal of the American Ceramic Society*, **2005**, 80, 424-432	3.8	29
52	A new powder production route for transparent spinel windows: powder synthesis and window properties **2005**, 5786, 41		25
51	Mechanical Properties of Single-Crystal Si3N4. *Journal of the American Ceramic Society*, **1996**, 79, 2065-2073	3.8	25
50	Reactions in the sintering of MgAl2O4 spinel doped with LiF. *International Journal of Materials Research*, **2007**, 98, 1273-1278	0.5	24
49	Elastic constants of eucryptite studied by density functional theory. *Physical Review B*, **2010**, 81,	3.3	19
48	Electrophoretic deposition applied to thick metal eramic coatings. *Surface and Coatings Technology*, **2002**, 157, 267-273	4.4	19

47	Electrochemical Impedance Spectroscopy of Transparent Polycrystalline Magnesium Aluminate (MgAl2O4) Spinel. *Journal of the American Ceramic Society*, **2015**, 98, 2130-2138	3.8	18
46	Spontaneous Ejecta from Eucryptite Composites. *Journal of the American Ceramic Society*, **2007**, 90, 2497-2501	3.8	17
45	Plasma-deposited fluorocarbon films on silicon studied by ellipsometry. *Thin Solid Films*, **1986**, 143, 269-278	2.2	17
44	Multiple cracking in CrN and Cr2N films on brass. *Surface and Coatings Technology*, **2005**, 192, 291-298	4.4	15
43	Atomic-scale mechanism for pressure-induced amorphization of eucryptite. *Journal of Applied Physics*, **2013**, 114, 083520	2.5	13
42	In Situ Raman Indentation of Eucryptite: Characterization of the Pressure-Induced Phase Transformation. *Journal of the American Ceramic Society*, **2009**, 92, 857-863	3.8	13
41	A review on the joining of SiC for high-temperature applications. *Journal of the Korean Ceramic Society*, **2020**, 57, 246-270	2.2	12
40	Functionally Graded Materials465-486		12
39	Determining Activation Volume for the Pressure-Induced Phase Transformation in Eucryptite Through Nanoindentation. *Journal of the American Ceramic Society*, **2012**, 95, 2051-2058	3.8	10
38	Effect of Doping on the Thermal Expansion of Eucryptite Prepared by Sol Gel Methods. *Journal of the American Ceramic Society*, **2012**, 95, 2939-2943	3.8	9
37	Internal Reduction of Ni2+ in ZrO2 Stabilized with 10 mol% Y2O3 Examined with VSM and SQUID Magnetometry. *Journal of the American Ceramic Society*, **2012**, 95, 4008-4014	3.8	9
36	Slow Crack Growth Behavior of Zirconia-Toughened Alumina and Alumina Using the Dynamic Fatigue Indentation Technique. *Journal of the American Ceramic Society*, **2011**, 94, 576-583	3.8	9
35	Fracture Toughness Measurement of Chromium Nitride Films on Brass. *Journal of the American Ceramic Society*, **2004**, 87, 1306-1313	3.8	9
34	Fabrication of transparent spinel: the role of impurities **2005**,		9
33	Microstructure evolution during internal reduction of polycrystalline nickel-doped yttria-stabilized zirconia. *Acta Materialia*, **2016**, 105, 84-93	8.4	8
32	Microstructural Evolution of Titanium Carbide Chromium Carbide (TiC Cr3C2) Composites Produced via Combustion Synthesis. *Journal of the American Ceramic Society*, **2004**, 85, 1285-1290	3.8	8
31	The Enhanced Stabilization of the Cubic Phase in Yttria-Stabilized Zirconia with the Addition of Nickel Oxide. *Journal of the American Ceramic Society*, **2011**, 94, 2030-2036	3.8	7
30	Characterization of Nickel Ions in Nickel-Doped Yttria-Stabilized Zirconia. *Journal of the American Ceramic Society*, **2014**, 97, 1041-1047	3.8	6

29	Solubility of NiO in Pechini-derived ZrO2 examined with SQUID magnetometry. *Journal of Materials Science*, **2012**, 47, 1690-1696	4.3	6
28	Reactions in Eucryptite-Based Lithium Aluminum Silicates. *Journal of the American Ceramic Society*, **2010**, 93, 1591	3.8	6
27	A Crystalline Si3N4/Amorphous Si3N4 Composite. *Journal of the American Ceramic Society*, **1996**, 79, 395-400	3.8	6
26	Pressure-induced phase transformation in β-eucryptite: An X-ray diffraction and density functional theory study. *Scripta Materialia*, **2016**, 122, 64-67	5.6	6
25	Thermal regimes of Li-ion conductivity in β-eucryptite. *Journal of the American Ceramic Society*, **2018**, 101, 347-355	3.8	6
24	Measurement and Characterization of a High-Temperature, Coke-Resistant Bi-functional Ni/BZY15 Water-Gas-Shift Catalyst Under Steam-Reforming Conditions. *Catalysis Letters*, **2018**, 148, 3592-3607	2.8	6
23	Fracture strength and principal stress fields during crush testing of the SiC layer in TRISO-coated fuel particles. *Journal of Nuclear Materials*, **2016**, 477, 263-272	3.3	5
22	Recrystallization Kinetics of 3C Silicon Carbide Implanted with 400 keV Cesium Ions. *Journal of the American Ceramic Society*, **2013**, 96, 3290-3295	3.8	5
21	Radiation effects and tolerance mechanism in β-eucryptite. *Journal of Applied Physics*, **2013**, 113, 033504	2.5	5
20	Finite-Element Simulations of Cracks Near Interfaces: Effects of Thermal, Elastic, and Plastic Mismatch. *Journal of the American Ceramic Society*, **2005**, 88, 2833-2838	3.8	5
19	Mechanical and optical properties in precipitated regions of alumina-rich magnesium aluminate spinel. *International Journal of Applied Ceramic Technology*, **2017**, 14, 236-244	2	4
18	Fracture at NbAl2O3 interfaces. *Scripta Metallurgica Et Materialia*, **1992**, 27, 1729-1734		4
17	Tailored metal–ceramic nanocomposites prepared by redox cycling of polycrystalline Ni-doped yttria stabilized zirconia. *Scripta Materialia*, **2016**, 112, 109-113	5.6	3
16	Influence of the Processing Route in the Microstructure and Mechanical Properties of NiAl/TiB2 Composites Produced by Combustion Synthesis. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2009**, 40, 187-195	2.5	3
15	Elastic constants of layers in isotropic laminates. *Journal of the Acoustical Society of America*, **2003**, 114, 2618-25	2.2	3
14	Fracture Characteristics of Czochralski-Grown Y3Al5O12. *Journal of the American Ceramic Society*, **1995**, 78, 2282-2286	3.8	3
13	Diffusion limited precipitation of alumina in magnesium aluminate spinel. *Journal of the American Ceramic Society*, **2017**, 100, 894-900	3.8	2
12	In situ Diamond Anvil Cell–Raman Spectroscopy and Nanoindentation Study of the Pressure-Induced Phase Transformation in Pure and Zinc-Doped β-Eucryptite. *Journal of the American Ceramic Society*, **2013**, 96, 1909-1915	3.8	2

11	Analysis of moir□data for near-interface cracks. *International Journal of Fracture*, **2007**, 143, 207-217	2.3	2
10	The influence of carbon on the microstructure and wear resistance of alumina. *Journal of the American Ceramic Society*, **2021**, 104, 4214-4225	3.8	2
9	Enhanced fracture toughness in nonstoichiometric magnesium aluminate spinel through controlled dissolution of second phase alumina. *Journal of the American Ceramic Society*, **2018**, 101, 812-820	3.8	1
8	Zero stress aging in notched multi-component glass fibers. *Journal of the American Ceramic Society*, **2019**, 102, 6552-6563	3.8	1
7	Hertzian Testing to Obtain Flaw Distributions in High Strength Glasses and Glass-Ceramics. *Journal of the American Ceramic Society*, **2016**, 99, 3712-3718	3.8	1
6	The effect of Ni and Fe on the decomposition of yttrium doped barium zirconate thin films. *Scripta Materialia*, **2021**, 201, 113948	5.6	1
5	Sharp indentation stress fields in fused silica: Finite element analysis and Yoffe analytic model. *Journal of the American Ceramic Society*, **2020**, 103, 7135-7146	3.8	0
4	Estimating Ni valence with magnetometry in solid-state reactive sintered yttrium-doped barium zirconate. *Journal of the American Ceramic Society*, **2022**, 105, 159	3.8	0
3	Effects of exsolution on the stability and morphology of Ni nanoparticles on BZY thin films. *Acta Materialia*, **2022**, 228, 117752	8.4	0
2	Superparamagnetic nickel particles in yttria-stabilized zirconia prepared by reduction of Pechini-derived solution. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	
1	Preface to the Special Issue on Mechanics of Interfaces. *Journal of Materials Science*, **2003**, 11, 275-275		