

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mesoscale assembly of chemically modified graphene into complex cellular networks. Nature Communications, 2014, 5, 4328.	12.8	250
2	MoS ₂ /WS ₂ Heterojunction for Photoelectrochemical Water Oxidation. ACS Catalysis, 2017, 7, 4990-4998.	11.2	189
3	Multimaterial 3D Printing of Graphene-Based Electrodes for Electrochemical Energy Storage Using Thermoresponsive Inks. ACS Applied Materials & amp; Interfaces, 2017, 9, 37136-37145.	8.0	148
4	Selfâ€Healing Grapheneâ€Based Composites with Sensing Capabilities. Advanced Materials, 2015, 27, 4788-4794.	21.0	136
5	Oxidation behaviour of SiC/SiC ceramic matrix composites in air. Journal of the European Ceramic Society, 2016, 36, 3293-3302.	5.7	132
6	How the crystallography and nanoscale chemistry of the metal/oxide interface develops during the aqueous oxidation of zirconium cladding alloys. Acta Materialia, 2012, 60, 7132-7149.	7.9	124
7	Using graphene networks to build bioinspired self-monitoring ceramics. Nature Communications, 2017, 8, 14425.	12.8	99
8	High-Mobility and High-Optical Quality Atomically Thin WS 2. Scientific Reports, 2017, 7, 14911.	3.3	77
9	Strong and tough metal/ceramic micro-laminates. Acta Materialia, 2018, 144, 202-215.	7.9	73
10	Y/Hf-doped AlCoCrFeNi high-entropy alloy with ultra oxidation and spallation resistance. Corrosion Science, 2020, 166, 108426.	6.6	67
11	Crystal Structure of the ZrO Phase at Zirconium/Zirconium Oxide Interfaces. Advanced Engineering Materials, 2015, 17, 211-215.	3.5	66
12	Understanding Mechanical Response of Elastomeric Graphene Networks. Scientific Reports, 2015, 5, 13712.	3.3	64
13	Identifying suboxide grains at the metal–oxide interface of a corroded Zr–1.0%Nb alloy using (S)TEM, transmission-EBSD and EELS. Micron, 2015, 69, 35-42.	2.2	62
14	Degradation of (La _{0.6} Sr _{0.4}) _{0.95} (Co _{0.2} Fe _{0.8})O _{3â^'ÎSolid Oxide Fuel Cell Cathodes at the Nanometer Scale and below. ACS Applied Materials & Interfaces, 2016, 8, 17360-17370.}	^b 8.0	56
15	Quantitative EELS analysis of zirconium alloy metal/oxide interfaces. Ultramicroscopy, 2011, 111, 123-130.	1.9	53
16	An investigation of the oxidation behaviour of zirconium alloys using isotopic tracers and high resolution SIMS. Journal of Nuclear Materials, 2013, 443, 436-443.	2.7	51
17	Functional Polymer Nanocomposites. Polymers and Polymer Composites, 2008, 16, 471-481.	1.9	48
18	Enabling highly efficient and broadband electromagnetic wave absorption by tuning impedance match in high-entropy transition metal diborides (HE TMB2). Journal of Advanced Ceramics, 2021, 10, 1299-1316.	17.4	46

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19	Experimental synthesis and density functional theory investigation of radiation tolerance of Zr ₃ (Al _{1â€} <scp>_xS</scp> i _x)C ₂ <scp>MAX</scp> phases. Journal of the American Ceramic Society, 2017, 100, 1377-1387.	3.8	45
20	Y-doped AlCoCrFeNi2.1 eutectic high-entropy alloy with excellent oxidation resistance and structure stability at 1000°C and 1100°C. Corrosion Science, 2021, 180, 109191.	6.6	37
21	Tailoring high-temperature stability and electrical conductivity of high entropy lanthanum manganite for solid oxide fuel cell cathodes. Journal of Materials Chemistry A, 2022, 10, 2256-2270.	10.3	37
22	High entropy rare earth hexaborides/tetraborides (HE REB6/HE REB4) composite powders with enhanced electromagnetic wave absorption performance. Journal of Materials Science and Technology, 2021, 87, 155-166.	10.7	36
23	Micromechanical strength of individual Al 2 O 3 platelets. Scripta Materialia, 2017, 131, 55-58.	5.2	35
24	SiC porous structures obtained with innovative shaping technologies. Journal of the European Ceramic Society, 2018, 38, 823-835.	5.7	34
25	Corrosion of the bonding at FeCrAl/Zr alloy interfaces in steam. Journal of Nuclear Materials, 2018, 508, 411-422.	2.7	31
26	Synergistic effects of temperature and polarization on Cr poisoning of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3â^î^} solid oxide fuel cell cathodes. Journal of Materials Chemistry A, 2019, 7, 9253-9262.	10.3	26
27	The effects of Co and Cr on the electrical conductivity of cerium gadolinium oxide. Solid State Ionics, 2015, 282, 54-62.	2.7	25
28	Continuous alumina fiber-reinforced yttria-stabilized zirconia composites with high density and toughness. Journal of the European Ceramic Society, 2020, 40, 1539-1548.	5.7	24
29	Flexible and robust YAG-Al2O3 composite nanofibrous membranes enabled by a hybrid nanocrystalline-amorphous structure. Journal of the European Ceramic Society, 2020, 40, 2463-2469.	5.7	21
30	Effects of reactive element oxides on the isothermal oxidation of β-NiAl coatings fabricated by spark plasma sintering. Surface and Coatings Technology, 2019, 357, 322-331.	4.8	20
31	Thermal damage and microstructure evolution mechanisms of Cf/SiBCN composites during plasma ablation. Corrosion Science, 2020, 169, 108621.	6.6	16
32	Ambient flash sintering of reduced graphene oxide/zirconia composites: Role of reduced graphene oxide. Journal of Materials Science and Technology, 2021, 60, 70-76.	10.7	16
33	Improved ablation resistance of 3D-Cf/SiBCN composites with (PyC/SiC)3 multi-layers as interphase. Journal of the European Ceramic Society, 2021, 41, 1114-1120.	5.7	16
34	A novel approach for the fabrication of carbon nanofibre/ceramic porous structures. Journal of the European Ceramic Society, 2013, 33, 2365-2374.	5.7	15
35	Effects of sintering atmosphere on the densification and microstructure of yttrium aluminum garnet fibers prepared by sol-gel process. Journal of the European Ceramic Society, 2019, 39, 5332-5337.	5.7	13
36	Strength degradation of SiC fibers with a porous ZrB2-SiC coating: Role of the coating porous structure. Journal of the European Ceramic Society, 2020, 40, 961-971.	5.7	12

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37	Interfacial energies and mass transport in the Ni(Al)–Al2O3 system: The implication of very low oxygen activities. Acta Materialia, 2014, 64, 282-296.	7.9	11
38	<scp>ATRâ€FTIR</scp> measurements of albumin and fibrinogen adsorption: Inert versus calcium phosphate ceramics. Journal of Biomedical Materials Research - Part A, 2015, 103, 3493-3502.	4.0	10
39	Densification, strengthening and toughening in hafnium carbide with the addition of silicon carbonitride. Journal of the American Ceramic Society, 2020, 103, 3286-3298.	3.8	10
40	Robust ceramic nanofibrous membranes with ultra-high water flux and nanoparticle rejection for self-standing ultrafiltration. Journal of the European Ceramic Society, 2021, 41, 4264-4272.	5.7	10
41	High fracture toughness of HfC through nanoâ€scale templating and novel sintering aids. Journal of the American Ceramic Society, 2019, 102, 997-1009.	3.8	8
42	Strong and tough HfC-HfB2 solid-solution composites obtained by reactive sintering with a SiB6 additive. Ceramics International, 2020, 46, 16257-16265.	4.8	8
43	Ti3SiC2 interphase coating in SiCf/SiC composites: Effect of the coating fabrication atmosphere and temperature. Journal of the European Ceramic Society, 2021, 41, 5850-5862.	5.7	8
44	Combined Cr and Mo poisoning of (La,Sr)(Co,Fe)O3â~δ solid oxide fuel cell cathodes at the nanoscale. Solid State Ionics, 2016, 288, 28-31.	2.7	7
45	Oxidation/ablation behaviors of hafnium carbide-silicon carbonitride systems at 1500 and 2500ÂC. Ceramics International, 2020, 46, 23840-23853.	4.8	7
46	Ablation resistance of HfC(Si, O)-HfB2(Si, O) composites fabricated by one-step reactive spark plasma sintering. Journal of the European Ceramic Society, 2021, 41, 2226-2238.	5.7	7
47	Flash cosintering of a lanthanum strontium cobalt ferrite nanofibre/Gd-doped ceria bilayer structure. Journal of the European Ceramic Society, 2022, 42, 2870-2878.	5.7	7
48	Multi-scale characterisation of oxide on zirconium alloys. Materials at High Temperatures, 2012, 29, 166-170.	1.0	6
49	Surface Chemistry of La0.99Sr0.01NbO4-d and Its Implication for Proton Conduction. ACS Applied Materials & Interfaces, 2017, 9, 29633-29642.	8.0	6
50	Effect of hydrothermal corrosion on the fracture strength of SiC layer in tristructuralâ€isotropic fuel particles. Journal of the American Ceramic Society, 2019, 102, 5555-5564.	3.8	6
51	Effects of iron and platinum on the isothermal oxidation of β-NiAl overlay coatings fabricated by spark plasma sintering. Surface and Coatings Technology, 2020, 382, 125178.	4.8	6
52	Improved stress measurement of YSZ by Raman spectroscopy: Effect of yttrium segregationâ€dependent tetragonality. International Journal of Applied Ceramic Technology, 2020, 17, 2416-2423.	2.1	6
53	Mechanisms of Oxidation of Fuel Cladding Alloys Revealed by High Resolution APT, TEM and SIMS Analysis. Materials Research Society Symposia Proceedings, 2012, 1383, 101.	0.1	4
54	Comparison of hydrothermal corrosion behavior of SiC with Al2O3and Al2O3Â+ÂY2O3sintering additives. Journal of the American Ceramic Society, 2020, 103, 2024-2034.	3.8	4

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55	Scheelite coatings on SiC fiber: Effect of coating temperature and atmosphere. Ceramics International, 2021, 47, 1693-1703.	4.8	4
56	Strength retention in scheelite coated SiC fibers: Effect of the gas composition and pre-heat treatment. Journal of the European Ceramic Society, 2020, 40, 2801-2810.	5.7	3
57	Mechanically isotropic alumina prepared by spark plasma sintering: The role of pyrolytic carbon and multilayer graphene. Journal of the European Ceramic Society, 2021, 41, 4242-4251.	5.7	3
58	3D Visualisation of Crack Distributions in Oxidised Zirconium Alloys by FIB-Slicing. Materials Research Society Symposia Proceedings, 2012, 1421, 24.	0.1	1
59	Effects of pyrolytic carbon on carburization strengthening and corrosion of 3YSZ hollow fiber membranes. Ceramics International, 2021, 47, 22172-22183.	4.8	1