

# Na Ni

## List of Publications by Year in descending order

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59  
papers

2,343  
citations

236612

25  
h-index

205818

48  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoscale assembly of chemically modified graphene into complex cellular networks. Nature Communications, 2014, 5, 4328.	5.8	250
2	MoS <sub>2</sub> /WS <sub>2</sub> Heterojunction for Photoelectrochemical Water Oxidation. ACS Catalysis, 2017, 7, 4990-4998.	5.5	189
3	Multimaterial 3D Printing of Graphene-Based Electrodes for Electrochemical Energy Storage Using Thermoresponsive Inks. ACS Applied Materials & Interfaces, 2017, 9, 37136-37145.	4.0	148
4	Self-Healing Graphene-Based Composites with Sensing Capabilities. Advanced Materials, 2015, 27, 4788-4794.	11.1	136
5	Oxidation behaviour of SiC/SiC ceramic matrix composites in air. Journal of the European Ceramic Society, 2016, 36, 3293-3302.	2.8	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.	3.8	124
7	Using graphene networks to build bioinspired self-monitoring ceramics. Nature Communications, 2017, 8, 14425.	5.8	99
8	High-Mobility and High-Optical Quality Atomically Thin WS <sub>2</sub> . Scientific Reports, 2017, 7, 14911.	1.6	77
9	Strong and tough metal/ceramic micro-laminates. Acta Materialia, 2018, 144, 202-215.	3.8	73
10	Y/Hf-doped AlCoCrFeNi high-entropy alloy with ultra oxidation and spallation resistance. Corrosion Science, 2020, 166, 108426.	3.0	67
11	Crystal Structure of the ZrO Phase at Zirconium/Zirconium Oxide Interfaces. Advanced Engineering Materials, 2015, 17, 211-215.	1.6	66
12	Understanding Mechanical Response of Elastomeric Graphene Networks. Scientific Reports, 2015, 5, 13712.	1.6	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.	1.1	62
14	Degradation of (La <sub>0.6</sub> Sr <sub>0.4</sub> ) <sub>0.95</sub> (Co <sub>0.2</sub> Fe <sub>0.8</sub> )O <sub>3-<math>\delta</math></sub> Solid Oxide Fuel Cell Cathodes at the Nanometer Scale and below. ACS Applied Materials & Interfaces, 2016, 8, 17360-17370.	4.0	56
15	Quantitative EELS analysis of zirconium alloy metal/oxide interfaces. Ultramicroscopy, 2011, 111, 123-130.	0.8	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.	1.3	51
17	Functional Polymer Nanocomposites. Polymers and Polymer Composites, 2008, 16, 471-481.	1.0	48
18	Enabling highly efficient and broadband electromagnetic wave absorption by tuning impedance match in high-entropy transition metal diborides (HE TMB <sub>2</sub> ). Journal of Advanced Ceramics, 2021, 10, 1299-1316.	8.9	46

#	ARTICLE	IF	CITATIONS
19	Experimental synthesis and density functional theory investigation of radiation tolerance of $Zr_{x-3}Al_{1-x}Sc_xC_2$ MAX phases. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1377-1387.	1.9	45
20	Y-doped AlCoCrFeNi <sub>2.1</sub> eutectic high-entropy alloy with excellent oxidation resistance and structure stability at 1000°C and 1100°C. <i>Corrosion Science</i> , 2021, 180, 109191.	3.0	37
21	Tailoring high-temperature stability and electrical conductivity of high entropy lanthanum manganite for solid oxide fuel cell cathodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2256-2270.	5.2	37
22	High entropy rare earth hexaborides/tetraborides (HE REB <sub>6</sub> /HE REB <sub>4</sub> ) composite powders with enhanced electromagnetic wave absorption performance. <i>Journal of Materials Science and Technology</i> , 2021, 87, 155-166.	5.6	36
23	Micromechanical strength of individual Al <sub>2</sub> O <sub>3</sub> platelets. <i>Scripta Materialia</i> , 2017, 131, 55-58.	2.6	35
24	SiC porous structures obtained with innovative shaping technologies. <i>Journal of the European Ceramic Society</i> , 2018, 38, 823-835.	2.8	34
25	Corrosion of the bonding at FeCrAl/Zr alloy interfaces in steam. <i>Journal of Nuclear Materials</i> , 2018, 508, 411-422.	1.3	31
26	Synergistic effects of temperature and polarization on Cr poisoning of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> solid oxide fuel cell cathodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9253-9262.	5.2	26
27	The effects of Co and Cr on the electrical conductivity of cerium gadolinium oxide. <i>Solid State Ionics</i> , 2015, 282, 54-62.	1.3	25
28	Continuous alumina fiber-reinforced yttria-stabilized zirconia composites with high density and toughness. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1539-1548.	2.8	24
29	Flexible and robust YAG-Al <sub>2</sub> O <sub>3</sub> composite nanofibrous membranes enabled by a hybrid nanocrystalline-amorphous structure. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2463-2469.	2.8	21
30	Effects of reactive element oxides on the isothermal oxidation of $\delta$ -NiAl coatings fabricated by spark plasma sintering. <i>Surface and Coatings Technology</i> , 2019, 357, 322-331.	2.2	20
31	Thermal damage and microstructure evolution mechanisms of Cf/SiBCN composites during plasma ablation. <i>Corrosion Science</i> , 2020, 169, 108621.	3.0	16
32	Ambient flash sintering of reduced graphene oxide/zirconia composites: Role of reduced graphene oxide. <i>Journal of Materials Science and Technology</i> , 2021, 60, 70-76.	5.6	16
33	Improved ablation resistance of 3D-Cf/SiBCN composites with (PyC/SiC) <sub>3</sub> multi-layers as interphase. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1114-1120.	2.8	16
34	A novel approach for the fabrication of carbon nanofibre/ceramic porous structures. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2365-2374.	2.8	15
35	Effects of sintering atmosphere on the densification and microstructure of yttrium aluminum garnet fibers prepared by sol-gel process. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5332-5337.	2.8	13
36	Strength degradation of SiC fibers with a porous ZrB <sub>2</sub> -SiC coating: Role of the coating porous structure. <i>Journal of the European Ceramic Society</i> , 2020, 40, 961-971.	2.8	12

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37	Interfacial energies and mass transport in the Ni(Al)-Al <sub>2</sub> O <sub>3</sub> system: The implication of very low oxygen activities. <i>Acta Materialia</i> , 2014, 64, 282-296.	3.8	11
38	<sc>ATR-FTIR</sc> measurements of albumin and fibrinogen adsorption: Inert versus calcium phosphate ceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3493-3502.	2.1	10
39	Densification, strengthening and toughening in hafnium carbide with the addition of silicon carbonitride. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3286-3298.	1.9	10
40	Robust ceramic nanofibrous membranes with ultra-high water flux and nanoparticle rejection for self-standing ultrafiltration. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4264-4272.	2.8	10
41	High fracture toughness of HfC through nano-scale templating and novel sintering aids. <i>Journal of the American Ceramic Society</i> , 2019, 102, 997-1009.	1.9	8
42	Strong and tough HfC-HfB <sub>2</sub> solid-solution composites obtained by reactive sintering with a SiB <sub>6</sub> additive. <i>Ceramics International</i> , 2020, 46, 16257-16265.	2.3	8
43	Ti <sub>3</sub> SiC <sub>2</sub> interphase coating in SiCf/SiC composites: Effect of the coating fabrication atmosphere and temperature. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5850-5862.	2.8	8
44	Combined Cr and Mo poisoning of (La,Sr)(Co,Fe)O <sub>3-δ</sub> solid oxide fuel cell cathodes at the nanoscale. <i>Solid State Ionics</i> , 2016, 288, 28-31.	1.3	7
45	Oxidation/ablation behaviors of hafnium carbide-silicon carbonitride systems at 1500 and 2500°C. <i>Ceramics International</i> , 2020, 46, 23840-23853.	2.3	7
46	Ablation resistance of HfC(Si, O)-HfB <sub>2</sub> (Si, O) composites fabricated by one-step reactive spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2226-2238.	2.8	7
47	Flash cosintering of a lanthanum strontium cobalt ferrite nanofibre/Gd-doped ceria bilayer structure. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2870-2878.	2.8	7
48	Multi-scale characterisation of oxide on zirconium alloys. <i>Materials at High Temperatures</i> , 2012, 29, 166-170.	0.5	6
49	Surface Chemistry of La <sub>0.99</sub> Sr <sub>0.01</sub> NbO <sub>4-d</sub> and Its Implication for Proton Conduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29633-29642.	4.0	6
50	Effect of hydrothermal corrosion on the fracture strength of SiC layer in tristructural-isotropic fuel particles. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5555-5564.	1.9	6
51	Effects of iron and platinum on the isothermal oxidation of $\delta$ -NiAl overlay coatings fabricated by spark plasma sintering. <i>Surface and Coatings Technology</i> , 2020, 382, 125178.	2.2	6
52	Improved stress measurement of YSZ by Raman spectroscopy: Effect of yttrium segregation-dependent tetragonality. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2416-2423.	1.1	6
53	Mechanisms of Oxidation of Fuel Cladding Alloys Revealed by High Resolution APT, TEM and SIMS Analysis. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1383, 101.	0.1	4
54	Comparison of hydrothermal corrosion behavior of SiC with Al <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> +Y <sub>2</sub> O <sub>3</sub> sintering additives. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2024-2034.	1.9	4

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55	Scheelite coatings on SiC fiber: Effect of coating temperature and atmosphere. <i>Ceramics International</i> , 2021, 47, 1693-1703.	2.3	4
56	Strength retention in scheelite coated SiC fibers: Effect of the gas composition and pre-heat treatment. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2801-2810.	2.8	3
57	Mechanically isotropic alumina prepared by spark plasma sintering: The role of pyrolytic carbon and multilayer graphene. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4242-4251.	2.8	3
58	3D Visualisation of Crack Distributions in Oxidised Zirconium Alloys by FIB-Slicing. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1421, 24.	0.1	1
59	Effects of pyrolytic carbon on carburization strengthening and corrosion of 3YSZ hollow fiber membranes. <i>Ceramics International</i> , 2021, 47, 22172-22183.	2.3	1