

Juliusz DÄbrowa

List of Publications by Year in descending order

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36
papers

1,609
citations

516710

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all docs

36
docs citations

36
times ranked

1379
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and microstructure of the (Co,Cr,Fe,Mn,Ni) ₃ O ₄ high entropy oxide characterized by spinel structure. <i>Materials Letters</i> , 2018, 216, 32-36.	2.6	372
2	Interdiffusion in the FCC-structured Al-Co-Cr-Fe-Ni high entropy alloys: Experimental studies and numerical simulations. <i>Journal of Alloys and Compounds</i> , 2016, 674, 455-462.	5.5	153
3	Demystifying the sluggish diffusion effect in high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019, 783, 193-207.	5.5	153
4	Influence of Cu content on high temperature oxidation behavior of AlCoCrCu _x FeNi high entropy alloys (x=0; 0.5; 1). <i>Intermetallics</i> , 2017, 84, 52-61.	3.9	140
5	Studies of the sluggish diffusion effect in Co-Cr-Fe-Mn-Ni, Co-Cr-Fe-Ni and Co-Fe-Mn-Ni high entropy alloys; determination of tracer diffusivities by combinatorial approach. <i>Journal of Alloys and Compounds</i> , 2018, 731, 920-928.	5.5	109
6	Formation and properties of high entropy oxides in Co-Cr-Fe-Mg-Mn-Ni-O system: Novel (Cr,Fe,Mg,Mn,Ni) ₃ O ₄ and (Co,Cr,Fe,Mg,Mn) ₃ O ₄ high entropy spinels. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1644-1650.	5.7	86
7	An innovative approach to design SOFC air electrode materials: high entropy La _{1-x} Sr _x (Co,Cr,Fe,Mn,Ni) ₃₋₁ O _{7-x} (x = 0, 0.1, 0.2, 0.3) perovskites synthesized by the sol-gel method. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24455-24468.	10.3	80
8	Defect structure and transport properties of (Co,Cr,Fe,Mn,Ni) ₃ O ₄ spinel-structured high entropy oxide. <i>Journal of the European Ceramic Society</i> , 2020, 40, 835-839.	5.7	71
9	Microstructure and electrical properties of Mn _{1+x} Co _{2-x} O ₄ (0 ≤ x ≤ 1.5) spinels synthesized using EDTA-gel processes. <i>Ceramics International</i> , 2014, 40, 13873-13882.	4.8	56
10	State-of-the-Art Diffusion Studies in the High Entropy Alloys. <i>Metals</i> , 2020, 10, 347.	2.3	51
11	Defect structure and transport properties in (Co,Cu,Mg,Ni,Zn)O high entropy oxide. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4292-4298.	5.7	49
12	Stabilizing fluorite structure in ceria-based high-entropy oxides: Influence of Mo addition on crystal structure and transport properties. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5870-5881.	5.7	36
13	Studies on the oxidation resistance of SiOC glasses coated TiAl alloy. <i>Intermetallics</i> , 2019, 105, 29-38.	3.9	25
14	Mixed ionic-electronic transport in the high-entropy (Co,Cu,Mg,Ni,Zn) ₁ -Li O oxides. <i>Acta Materialia</i> , 2021, 208, 116735.	7.9	25
15	Protective-conducting coatings based on black glasses (SiOC) for application in Solid Oxide Fuel Cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27298-27307.	7.1	23
16	Magnetic properties and ionic distribution in high entropy spinels studied by Mössbauer and ab initio methods. <i>Acta Materialia</i> , 2021, 206, 116600.	7.9	20
17	Structure and transport properties of the novel (Dy,Er,Gd,Ho,Y) ₃ Fe ₅ O ₁₂ and (Dy,Gd,Ho,Sm,Y) ₃ Fe ₅ O ₁₂ high entropy garnets. <i>Journal of the European Ceramic Society</i> , 2021, 41, 3844-3849.	5.7	18
18	The hydrogen context and vulnerabilities in the central and Eastern European countries. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19036-19054.	7.1	16

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19	Determination of the intrinsic diffusivities from the diffusion couple experiment in multicomponent systems. Scripta Materialia, 2017, 138, 48-51.	5.2	15
20	Structural, thermoelectric and stability studies of Fe-doped copper sulfide. Solid State Ionics, 2020, 350, 115322.	2.7	15
21	In-situ XRD investigations of FeAl intermetallic phase-based alloy oxidation. Corrosion Science, 2020, 164, 108344.	6.6	13
22	Oxidation Behavior of Al _x (CoCrFeNi) _{100-x} High-Entropy Alloys Under Thermal-Cycling Conditions. Oxidation of Metals, 2021, 96, 307-321.	2.1	12
23	Search for mid- and high-entropy transition-metal chalcogenides “ investigating the pentlandite structure. Dalton Transactions, 2021, 50, 9560-9573.	3.3	11
24	Formation of Solid Solutions and Physicochemical Properties of the High-Entropy Ln _{1-x} Sr _x (Co,Cr,Fe,Mn,Ni)O ₃ (Ln = La, Pr, Nd, Sm or Gd) Perovskites. Materials, 2021, 14, 5264.	2.9	11
25	Co-free triple perovskite La _{1.5} Ba _{1.5} Cu ₃ O ₇ ± δ as a promising air electrode material for solid oxide fuel cells. Journal of Power Sources, 2022, 532, 231371.	7.8	10
26	Polymer Derived Ceramics based on SiAlOC glasses as novel protective coatings for ferritic steel. Applied Surface Science, 2022, 576, 151826.	6.1	9
27	Synthesis, Processing and Properties of Calcium- and Nickel-Doped Yttrium Chromates(III) Y _{0.8} Ca _{0.2} Cr _{1-x} Ni _x O ₃ (x=0-0.3) and Studies on Their Potential Application as Coatings for SOFC Interconnects. Journal of Materials Engineering and Performance, 2018, 27, 3276-3289.	2.5	7
28	Oxidation Behavior of Zr ₄₃ Cu ₄₅ Al ₁₂ Bulk Metallic Glass at 400-525°C in Air Atmosphere. Journal of Materials Engineering and Performance, 2015, 24, 4863-4869.	2.5	6
29	Interdiffusion and diffusion paths in two-phase $\hat{\Gamma}_3+\hat{\Gamma}_2$ $\hat{\Gamma}_3+\hat{\Gamma}_2$ diffusion couples. Comparison of experimental investigation with theoretical predictions. Journal of Alloys and Compounds, 2020, 836, 155513.	5.5	4
30	Modification of Ruddlesden-Popper-type Nd _{2-x} Ni _{0.75} Cu _{0.2} MO _{0.05} O ₄ ± δ by the Nd-site cationic deficiency and doping with Sc, Ga or In: Crystal structure, oxygen content, transport properties and oxygen permeability. Journal of Solid State Chemistry, 2021, 296, 121982.	2.9	4
31	Interdiffusion: Consistency of Darken's and Onsager's Methods. Defect and Diffusion Forum, 2015, 363, 29-34.	0.4	2
32	Influence of Gaseous Media Flow in the Dual Ar-H ₂ -H ₂ O/air Atmosphere Setup on the Scale Growth Kinetics of Crofer 22APU Ferritic Stainless Steel. Journal of Materials Engineering and Performance, 2017, 26, 540-546.	2.5	2
33	Formation of silicide layers on a Ti-46Al-8Ta alloy in pack cementation and diffusion couple experiments. Surface and Coatings Technology, 2022, 429, 127860.	4.8	2
34	Microstructure and Mechanical Properties of the Ductile Al-Ti-Mo-Nb-V Refractory High Entropy Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 653-662.	2.2	2
35	Evaluation of phase stability and diffusion kinetics in novel BCC-structured high entropy alloys. Materials Research Letters, 2022, 10, 556-565.	8.7	1
36	Dispersion in cylindrical channels on the laminar flow at low Fourier numbers. Analytica Chimica Acta, 2015, 881, 90-97.	5.4	0