

Juliusz DÄbrowa

List of Publications by Year in descending order

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36
papers

1,609
citations

516710

16
h-index

361022

35
g-index

36
all docs

36
docs citations

36
times ranked

1379
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of silicide layers on a Ti-46Al-8Ta alloy in pack cementation and diffusion couple experiments. <i>Surface and Coatings Technology</i> , 2022, 429, 127860.	4.8	2
2	Polymer Derived Ceramics based on SiAlOC glasses as novel protective coatings for ferritic steel. <i>Applied Surface Science</i> , 2022, 576, 151826.	6.1	9
3	Microstructure and Mechanical Properties of the Ductile Al ₂ Ti ₂ Mo ₂ Nb ₂ V Refractory High Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 653-662.	2.2	2
4	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. <i>Journal of Power Sources</i> , 2022, 532, 231371.	7.8	10
5	Evaluation of phase stability and diffusion kinetics in novel BCC-structured high entropy alloys. <i>Materials Research Letters</i> , 2022, 10, 556-565.	8.7	1
6	Search for mid- and high-entropy transition-metal chalcogenides – investigating the pentlandite structure. <i>Dalton Transactions</i> , 2021, 50, 9560-9573.	3.3	11
7	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
8	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. <i>Journal of Solid State Chemistry</i> , 2021, 296, 121982.	2.9	4
9	Mixed ionic-electronic transport in the high-entropy (Co,Cu,Mg,Ni,Zn) _{1-x} Li _x O oxides. <i>Acta Materialia</i> , 2021, 208, 116735.	7.9	25
10	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
11	Oxidation Behavior of Al _x (CoCrFeNi) _{100-x} High-Entropy Alloys Under Thermal-Cycling Conditions. <i>Oxidation of Metals</i> , 2021, 96, 307-321.	2.1	12
12	Formation of Solid Solutions and Physicochemical Properties of the High-Entropy Ln _{1-x} Sr _x (Co,Cr,Fe,Mn,Ni)O _{3±δ} (Ln = La, Pr, Nd, Sm or Gd) Perovskites. <i>Materials</i> , 2021, 14, 5264.	2.9	11
13	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
14	In-situ XRD investigations of FeAl intermetallic phase-based alloy oxidation. <i>Corrosion Science</i> , 2020, 164, 108344.	6.6	13
15	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
16	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
17	An innovative approach to design SOFC air electrode materials: high entropy La _{1-x} Sr _x (Co,Cr,Fe,Mn,Ni)O _{3±δ} (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
18	Structural, thermoelectric and stability studies of Fe-doped copper sulfide. <i>Solid State Ionics</i> , 2020, 350, 115322.	2.7	15

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19	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
20	State-of-the-Art Diffusion Studies in the High Entropy Alloys. Metals, 2020, 10, 347.	2.3	51
21	Defect structure and transport properties in (Co,Cu,Mg,Ni,Zn)O high entropy oxide. Journal of the European Ceramic Society, 2019, 39, 4292-4298.	5.7	49
22	The hydrogen context and vulnerabilities in the central and Eastern European countries. International Journal of Hydrogen Energy, 2019, 44, 19036-19054.	7.1	16
23	Studies on the oxidation resistance of SiOC glasses coated TiAl alloy. Intermetallics, 2019, 105, 29-38.	3.9	25
24	Demystifying the sluggish diffusion effect in high entropy alloys. Journal of Alloys and Compounds, 2019, 783, 193-207.	5.5	153
25	Synthesis and microstructure of the (Co,Cr,Fe,Mn,Ni) $3 O 4$ high entropy oxide characterized by spinel structure. Materials Letters, 2018, 216, 32-36.	2.6	372
26	Studies of "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. Journal of Alloys and Compounds, 2018, 731, 920-928.	5.5	109
27	Synthesis, Processing and Properties of Calcium- and Nickel-Doped Yttrium Chromates(III) $Y_{0.8}Ca_{0.2}Cr_{1-x}Ni_xO_3$ ($x=0-0.3$) 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	Influence of Cu content on high temperature oxidation behavior of AlCoCrCu _x FeNi high entropy alloys ($x=0; 0.5; 1$). Intermetallics, 2017, 84, 52-61.	3.9	140
29	Determination of the intrinsic diffusivities from the diffusion couple experiment in multicomponent systems. Scripta Materialia, 2017, 138, 48-51.	5.2	15
30	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
31	Protective-conducting coatings based on black glasses (SiOC) for application in Solid Oxide Fuel Cells. International Journal of Hydrogen Energy, 2017, 42, 27298-27307.	7.1	23
32	Interdiffusion in the FCC-structured Al-Co-Cr-Fe-Ni high entropy alloys: Experimental studies and numerical simulations. Journal of Alloys and Compounds, 2016, 674, 455-462.	5.5	153
33	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
34	Dispersion in cylindrical channels on the laminar flow at low Fourier numbers. Analytica Chimica Acta, 2015, 881, 90-97.	5.4	0
35	Interdiffusion: Consistency of Darken's and Onsager's Methods. Defect and Diffusion Forum, 2015, 363, 29-34.	0.4	2
36	Microstructure and electrical properties of Mn _{1+x} Co _{2-2x} O ₄ ($0 \leq x \leq 1.5$) spinels synthesized using EDTA-gel processes. Ceramics International, 2014, 40, 13873-13882.	4.8	56