

Ji-Cheng Zhao

List of Publications by Year in descending order

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132
papers

6,200
citations

76326

40
h-index

76900

74
g-index

143
all docs

143
docs citations

143
times ranked

5070
citing authors

#	ARTICLE	IF	CITATIONS
1	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , 2020, 368, 521-526.	12.6	357
2	New frontiers for the materials genome initiative. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	312
3	NMR Confirmation for Formation of $[B_{12}H_{12}]^{2-}$ Complexes during Hydrogen Desorption from Metal Borohydrides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3164-3169.	3.1	280
4	Ultrahigh-Temperature Nb-Silicide-Based Composites. <i>MRS Bulletin</i> , 2003, 28, 646-653.	3.5	277
5	Structure of unsolvated magnesium borohydride $Mg(BH_4)_2$. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 561-568.	1.8	215
6	Magnesium borohydride as a hydrogen storage material: Properties and dehydrogenation pathway of unsolvated $Mg(BH_4)_2$. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 916-928.	7.1	211
7	Combinatorial approaches as effective tools in the study of phase diagrams and composition-structure-property relationships. <i>Progress in Materials Science</i> , 2006, 51, 557-631.	32.8	202
8	Ammine Magnesium Borohydride Complex as a New Material for Hydrogen Storage: Structure and Properties of $Mg(BH_4)_2 \cdot 2NH_3$. <i>Inorganic Chemistry</i> , 2008, 47, 4290-4298.	4.0	199
9	Spinodal decomposition, ordering transformation, and discontinuous precipitation in a Cu-15Ni-8Sn alloy. <i>Acta Materialia</i> , 1998, 46, 4203-4218.	7.9	185
10	Thermal conductivity imaging at micrometre-scale resolution for combinatorial studies of materials. <i>Nature Materials</i> , 2004, 3, 298-301.	27.5	148
11	Phase precipitation and time-temperature-transformation diagram of Hastelloy X. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 293, 112-119.	5.6	133
12	The Roles of Dihydrogen Bonds in Amine Borane Chemistry. <i>Accounts of Chemical Research</i> , 2013, 46, 2666-2675.	15.6	122
13	A combinatorial approach for efficient mapping of phase diagrams and properties. <i>Journal of Materials Research</i> , 2001, 16, 1565-1578.	2.6	112
14	Mapping of the Nb-Ti-Si phase diagram using diffusion multiples. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 372, 21-27.	5.6	99
15	Combinatorial Materials Science: What's New Since Edison?. <i>MRS Bulletin</i> , 2002, 27, 295-300.	3.5	94
16	Determination of the Nb-Cr-Si phase diagram using diffusion multiples. <i>Acta Materialia</i> , 2003, 51, 6395-6405.	7.9	93
17	Facile Synthesis of Aminodiborane and Inorganic Butane Analogue $NH_3BH_2NH_2BH_3$. <i>Journal of the American Chemical Society</i> , 2010, 132, 10658-10659.	13.7	91
18	High-throughput thermal conductivity measurements of nickel solid solutions and the applicability of the Wiedemann-Franz law. <i>Acta Materialia</i> , 2007, 55, 5177-5185.	7.9	87

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19	THE DIFFUSION-MULTIPLE APPROACH TO DESIGNING ALLOYS. Annual Review of Materials Research, 2005, 35, 51-73.	9.3	84
20	Magnesium borohydride as a hydrogen storage material: Synthesis of unsolvated Mg(BH ₄) ₂ . International Journal of Hydrogen Energy, 2009, 34, 2144-2152.	7.1	80
21	Thermodynamic assessment of the Al-Zr binary system. Journal of Phase Equilibria and Diffusion, 2001, 22, 544-551.	0.3	79
22	Experimental and Computational Study of the Formation Mechanism of the Diammoniate of Diborane: The Role of Dihydrogen Bonds. Journal of the American Chemical Society, 2011, 133, 14172-14175.	13.7	79
23	Reliability of the diffusion-multiple approach for phase diagram mapping. Journal of Materials Science, 2004, 39, 3913-3925.	3.7	77
24	Invited Article: Micron resolution spatially resolved measurement of heat capacity using dual-frequency time-domain thermoreflectance. Review of Scientific Instruments, 2013, 84, 071301.	1.3	77
25	Extracting interdiffusion coefficients from binary diffusion couples using traditional methods and a forward-simulation method. Intermetallics, 2013, 34, 132-141.	3.9	74
26	High-temperature oxidation behavior of thermoelectric SnSe. Journal of Alloys and Compounds, 2016, 669, 224-231.	5.5	69
27	High-throughput diffusion multiples. Materials Today, 2005, 8, 28-37.	14.2	67
28	Ammonium Octahydrotriborate (NH ₄ B ₃ H ₈): New Synthesis, Structure, and Hydrolytic Hydrogen Release. Inorganic Chemistry, 2011, 50, 3738-3742.	4.0	67
29	Continuous cooling transformation kinetics versus isothermal transformation kinetics of steels: a phenomenological rationalization of experimental observations. Materials Science and Engineering Reports, 1995, 15, 135-207.	31.8	62
30	A Diffusion Multiple Approach for the Accelerated Design of Structural Materials. MRS Bulletin, 2002, 27, 324-329.	3.5	62
31	Phase diagram of the Nb-Al-Si ternary system. Journal of Alloys and Compounds, 2003, 360, 183-188.	5.5	59
32	Thermodynamic modeling of the Nb-Hf-Si ternary system. Intermetallics, 2003, 11, 407-415.	3.9	50
33	Enhanced stability of horseradish peroxidase encapsulated in acetalated dextran microparticles stored outside cold chain conditions. International Journal of Pharmaceutics, 2012, 431, 101-110.	5.2	50
34	Measurement of interdiffusion and impurity diffusion coefficients in the bcc phase of the Ti-X (X=Al, Cr, Fe, Ni) system. Scripta Materialia, 2017, 127, 92-96.	3.7	50
35	Application of dual-anneal diffusion multiples to the effective study of phase diagrams and phase transformations in the Fe-Cr-Ni system. Acta Materialia, 2015, 88, 196-206.	7.9	46
36	First experimental measurement of calcium diffusion in magnesium using novel liquid-solid diffusion couples and forward-simulation analysis. Scripta Materialia, 2017, 127, 92-96.	5.2	45

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37	Determination of Nb-Hf-Si phase equilibria. <i>Intermetallics</i> , 2001, 9, 681-689.	3.9	44
38	Formation Mechanisms, Structure, Solution Behavior, and Reactivity of Aminodiborane. <i>Journal of the American Chemical Society</i> , 2015, 137, 12406-12414.	13.7	42
39	Experimental investigation of phase equilibria in the Co-rich part of the Co-Al-X (X=W, Mo, Nb, Ni, Ta) ternary systems using diffusion multiples. <i>Journal of Alloys and Compounds</i> , 2017, 691, 110-118.	5.5	42
40	A Simple and Efficient Way to Synthesize Unsolvated Sodium Octahydrotriborate. <i>Inorganic Chemistry</i> , 2010, 49, 8185-8187.	4.0	41
41	Effect of ternary elements on a martensitic transformation in $\hat{1}^2$ -NiAl. <i>Intermetallics</i> , 2010, 18, 796-802.	3.9	41
42	Micron-scale measurements of the coefficient of thermal expansion by time-domain probe beam deflection. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	40
43	Large-scale and Facile Preparation of Pure Ammonia Borane through Displacement Reactions. <i>Chemistry - A European Journal</i> , 2012, 18, 11994-11999.	3.3	40
44	Thermal Conductivity Imaging of Thermal Barrier Coatings. <i>Advanced Engineering Materials</i> , 2005, 7, 622-626.	3.5	39
45	Comprehensive NMR Study of Magnesium Borohydride. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3172-3177.	3.1	39
46	Li ₂ B ₁₂ H ₁₂ ·7NH ₃ : a new ammine complex for ammonia storage or indirect hydrogen storage. <i>Journal of Materials Chemistry</i> , 2010, 20, 2743.	6.7	38
47	Effects of alloying elements on the elastic properties of bcc Ti-X alloys from first-principles calculations. <i>Computational Materials Science</i> , 2018, 142, 215-226.	3.0	38
48	Hf-Si binary phase diagram determination and thermodynamic modeling. <i>Journal of Phase Equilibria and Diffusion</i> , 2000, 21, 40-45.	0.3	37
49	First Reliable Diffusion Coefficients for Mg-Y and Additional Reliable Diffusion Coefficients for Mg-Sn and Mg-Zn. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5778-5782.	2.2	37
50	Isothermal decomposition of supercooled austenite in steels. <i>Materials Science and Technology</i> , 1992, 8, 1004-1010.	1.6	33
51	High-capacity hydrogen release through hydrolysis of NaB ₃ H ₈ . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7038-7042.	7.1	33
52	Thermal conductivity mapping of the Ni-Al system and the beta-NiAl phase in the Ni-Al-Cr system. <i>Scripta Materialia</i> , 2012, 66, 935-938.	5.2	32
53	Impurity and interdiffusion coefficients of the Cr-X (X=Co, Fe, Mo, Nb, Ni, Pd, Pt, Ta) binary systems. <i>Journal of Alloys and Compounds</i> , 2014, 604, 142-150.	5.5	32
54	Thermodynamic assessment of the Al-Hf binary system. <i>Journal of Phase Equilibria and Diffusion</i> , 2002, 23, 416-423.	0.3	31

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55	Thermolysis and solid state NMR studies of NaB_3H_8 , $\text{NH}_3\text{B}_3\text{H}_7$, and $\text{NH}_4\text{B}_3\text{H}_8$. Dalton Transactions, 2013, 42, 701-708.	3.3	30
56	Facile measurement of single-crystal elastic constants from polycrystalline samples. Npj Computational Materials, 2017, 3, .	8.7	30
57	Elastic knowledge base of bcc Ti alloys from first-principles calculations and CALPHAD-based modeling. Computational Materials Science, 2017, 140, 121-139.	3.0	30
58	Accurate and efficient measurement of impurity (dilute) diffusion coefficients without isotope tracer experiments. Scripta Materialia, 2017, 128, 32-35.	5.2	30
59	Low-profile ultra-wideband inverted-hat monopole antenna for 50â€…MHzâ€“2â€…GHz operation. Electronics Letters, 2009, 45, 142.	1.0	29
60	An integrated experimental and computational study of diffusion and atomic mobility of the aluminumâ€“magnesium system. Acta Materialia, 2020, 189, 214-231.	7.9	29
61	Thermodynamic description of the Ti-Mo-Nb-Ta-Zr system and its implications for phase stability of Ti bio-implant materials. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 61, 72-84.	1.6	28
62	Microstructure and precipitation kinetics in a Cu-7.5Ni-5Sn alloy. Scripta Materialia, 1998, 39, 1509-1516.	5.2	27
63	Study of Aluminoborane Compound $\text{AlB}_4\text{H}_{11}$ for Hydrogen Storage. Journal of Physical Chemistry C, 2009, 113, 2-11.	3.1	27
64	Combinatorial Approach Based on Interdiffusion Experiments for the Design of Thermoelectrics: Application to the $\text{Mg}_2(\text{Si},\text{Sn})$ Alloys. Chemistry of Materials, 2014, 26, 4334-4337.	6.7	27
65	Measurements of diffusion coefficients of Ce, Gd and Mn in Mg. Materialia, 2019, 7, 100353.	2.7	27
66	Anti and gauche conformers of an inorganic butane analogue, $\text{NH}_3\text{BH}_2\text{NH}_2\text{BH}_3$. Chemical Communications, 2012, 48, 7943.	4.1	26
67	Diffusion in the Ti-Al-V System. Journal of Phase Equilibria and Diffusion, 2018, 39, 731-746.	1.4	26
68	A comprehensive diffusion mobility database comprising 23 elements for magnesium alloys. Acta Materialia, 2020, 201, 191-208.	7.9	26
69	Effect of MeV ion irradiation on the coefficient of thermal expansion of Feâ€“Ni Invar alloys: A combinatorial study. Acta Materialia, 2010, 58, 1236-1241.	7.9	25
70	High-throughput experimental tools for the materials genome initiative. Science Bulletin, 2014, 59, 1652-1661.	1.7	25
71	Experimental Determination of Impurity and Interdiffusion Coefficients in Seven Ti and Zr Binary Systems Using Diffusion Multiples. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3108-3116.	2.2	24
72	Thermal Decomposition Behavior of Hydrated Magnesium Dodecahydrododecaborates. Journal of Physical Chemistry Letters, 2010, 1, 201-204.	4.6	23

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73	Rapid Synthesis and Sintering of Metals from Powders. <i>Advanced Science</i> , 2021, 8, e2004229.	11.2	23
74	Phase transformation kinetics and the assessment of equilibrium and metastable states. <i>Journal of Phase Equilibria and Diffusion</i> , 1993, 14, 303-315.	0.3	22
75	A Convenient Synthesis and a NMR Study of the Diammoniate of Diborane. <i>Chemistry - A European Journal</i> , 2012, 18, 3490-3492.	3.3	22
76	Determination of the Fe-Cr-Mo Phase Diagram at Intermediate Temperatures using Dual-Anneal Diffusion Multiples. <i>Journal of Phase Equilibria and Diffusion</i> , 2016, 37, 25-38.	1.4	21
77	Experimental determination of the phase diagrams of the Co-Ni-X (X = W, Mo, Nb, Ta) ternary systems using diffusion multiples. <i>Intermetallics</i> , 2018, 93, 20-29.	3.9	21
78	Kinetics of the fcc to hcp phase transformation and the formation of martensite in pure cobalt. <i>Scripta Metallurgica Et Materialia</i> , 1995, 32, 1671-1676.	1.0	20
79	High-throughput measurements of materials properties. <i>Jom</i> , 2011, 63, 40-44.	1.9	20
80	High-efficiency combinatorial approach as an effective tool for accelerating metallic biomaterials research and discovery. <i>Materials Science and Engineering C</i> , 2014, 39, 273-280.	7.3	20
81	The thermodynamic prediction of phase stability in multicomponent superalloys. <i>Jom</i> , 2002, 54, 37-41.	1.9	18
82	Examination of Ni-base superalloy diffusion couples containing multiphase regions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 407, 135-146.	5.6	18
83	A general model for thermal and electrical conductivity of binary metallic systems. <i>Acta Materialia</i> , 2017, 126, 272-279.	7.9	17
84	Effects of Ni, Cr and W on the microstructural stability of multicomponent CoNi-base superalloys studied using CALPHAD and diffusion-multiple approaches. <i>Journal of Materials Science and Technology</i> , 2021, 80, 139-149.	10.7	17
85	Synthesis, structural analysis, and thermal decomposition studies of [(NH ₃) ₂ BH ₂] ₃ B ₃ H ₈ . <i>RSC Advances</i> , 2013, 3, 7460.	3.6	16
86	Generation and detection of gigahertz surface acoustic waves using an elastomeric phase-shift mask. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	16
87	Measurement of Diffusion Coefficients in the bcc Phase of the Ti-Sn and Zr-Sn Binary Systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1409-1420.	2.2	16
88	Techno-economic analysis of high-efficiency natural-gas generators for residential combined heat and power. <i>Applied Energy</i> , 2018, 226, 1064-1075.	10.1	15
89	Recommendation for reliable evaluation of diffusion coefficients from diffusion profiles with steep concentration gradients. <i>Materialia</i> , 2018, 2, 63-67.	2.7	15
90	Recommendations for simplified yet robust assessments of atomic mobilities and diffusion coefficients of ternary and multicomponent solid solutions. <i>Scripta Materialia</i> , 2022, 207, 114227.	5.2	15

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91	pydiffusion: A Python Library for Diffusion Simulation and Data Analysis. Journal of Open Research Software, 2019, 7, 13.	5.9	14
92	Intermolecular dihydrogen- and hydrogen-bonding interactions in diammonium <i>closo</i> -decahydrodecaborate sesquihydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, m1-m3.	0.4	13
93	Structure determination of an amorphous compound AlB ₄ H ₁₁ . Chemical Science, 2012, 3, 3183.	7.4	13
94	Desolvation and Dehydrogenation of Solvated Magnesium Salts of Dodecahydrodecaborate: Relationship between Structure and Thermal Decomposition. Chemistry - A European Journal, 2014, 20, 7325-7333.	3.3	13
95	Large dataset generation, integration and simulation in materials science, part II. Jom, 2011, 63, 40-40.	1.9	12
96	The structural characterization of (NH ₄) ₂ B ₁₀ H ₁₀ and thermal decomposition studies of (NH ₄) ₂ B ₁₀ H ₁₀ and (NH ₄) ₂ B ₁₂ H ₁₂ . International Journal of Hydrogen Energy, 2012, 37, 4267-4273.	7.1	12
97	Experimental determination of the Ni-Cr-Ru phase diagram and thermodynamic reassessments of the Cr-Ru and Ni-Cr-Ru systems. Intermetallics, 2015, 64, 86-95.	3.9	12
98	Effective evaluation of interfacial energy by matching precipitate sizes measured along a composition gradient with Kampmann-Wagner numerical (KWN) modeling. Scripta Materialia, 2019, 160, 70-74.	5.2	12
99	Diffusion Coefficients and Phase Equilibria of the Cu-Zn Binary System Studied Using Diffusion Couples. Journal of Phase Equilibria and Diffusion, 2020, 41, 642-653.	1.4	12
100	A simple yet general model of binary diffusion coefficients emerged from a comprehensive assessment of 18 binary systems. Acta Materialia, 2021, 215, 117077.	7.9	12
101	High-throughput exploration of alloying effects on the microstructural stability and properties of multi-component CoNi-base superalloys. Journal of Alloys and Compounds, 2021, 881, 160618.	5.5	12
102	Ordering transformation and spinodal decomposition in Au-Ni alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 707-716.	2.2	11
103	Synthesis, Structural Characterization, and Thermal Decomposition Study of Mg(H ₂ O) ₆ B ₁₀ H ₁₀ ·4H ₂ O. Journal of Physical Chemistry C, 2011, 115, 11793-11802.	3.1	10
104	Anisotropic thermal conductivity of magnetocaloric AlFe ₂ B ₂ . Materialia, 2018, 1, 150-154.	2.7	10
105	Ultrafast high-temperature sintering to avoid metal loss toward high-performance and scalable cermets. Matter, 2022, 5, 594-604.	10.0	10
106	Diffusion quadruples for the determination of quaternary phase diagrams applied to FeCoNiCr system. Scripta Metallurgica, 1988, 22, 1825-1829.	1.2	8
107	The Thermodynamics and Kinetics of High-Entropy Alloys. Journal of Phase Equilibria and Diffusion, 2017, 38, 351-352.	1.4	8
108	First measurement of the full elastic constants of Ni-based superalloy René 88DT. Scripta Materialia, 2018, 152, 24-26.	5.2	8

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109	Gradient temperature heat treatment for efficient study of phase precipitation in a high-temperature Fe-Cr-Mo ferritic steel. <i>Materialia</i> , 2018, 3, 31-40.	2.7	8
110	High-Throughput and Systematic Study of Phase Transformations and Metastability Using Dual-Anneal Diffusion Multiples. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5006-5022.	2.2	8
111	First measurement of diffusion coefficients of lithium in magnesium. <i>Materialia</i> , 2020, 11, 100674.	2.7	8
112	Data on the comprehensive first-principles diffusion study of the aluminum-magnesium system. <i>Data in Brief</i> , 2020, 30, 105381.	1.0	7
113	Thermodynamic Assessment of the Al-Zr Binary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2001, 22, 544-551.	0.3	7
114	Ordering transformation and spinodal decomposition in Au-Ni alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999, 30, 707-716.	2.2	6
115	Dynamic surface acoustic response to a thermal expansion source on an anisotropic half space. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 2634-2640.	1.1	6
116	Dual Silicon Oxycarbide Accelerated Growth of Well-Ordered Graphitic Networks for Electronic and Thermal Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800324.	5.8	6
117	Vapor pressure measurements of Mg(BH ₄) ₂ using Knudsen torsion effusion thermo graphic method. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2175-2186.	7.1	5
118	Thermal Conductivity Degradation and Microstructural Damage Characterization in Low-Dose Ion Beam-Irradiated 3C-SiC. <i>Metallurgical and Materials Transactions E</i> , 2017, 4, 61-69.	0.5	5
119	Phase Equilibria and Diffusion in the Ni-Cr-Pt System at 1200 Å°C. <i>Journal of Phase Equilibria and Diffusion</i> , 2019, 40, 542-552.	1.4	4
120	A Mnemonic Scheme for Thermodynamics. <i>MRS Bulletin</i> , 2009, 34, 92-94.	3.5	3
121	Spatially Resolved Measurements of Thermal Stresses by Picosecond Time-Domain Probe Beam Deflection. <i>Journal of Thermal Stresses</i> , 2009, 33, 9-14.	2.0	3
122	Measurement of an Iso-Curie Temperature Line of a Co _{1-x} Cr _x Mo Solid Solution by Magnetic Force Microscopy Imaging on a Diffusion Multiple. <i>Advanced Engineering Materials</i> , 2013, 15, 321-324.	3.5	3
123	Redetermination of di-1/4-hydrido-hexahydridotetrakis(tetrahydrofuran)dialuminium(III)magnesium(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m575-m575.	0.2	2
124	Microstructure and Fracture Toughness of an Aluminum-Steel Impact Weld and Effect of Thermal Exposure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2795.	2.2	2
125	Evaluation of Phase Relations in the Nb-Cr-Al System at 1000 Å°C Using a Diffusion-Multiple Approach. <i>Journal of Phase Equilibria and Diffusion</i> , 2004, 25, 152-159.	1.4	2
126	Magnetization-structure-composition phase diagram mapping in Co-Fe-Ni alloys using diffusion multiples and scanning Hall probe microscopy. <i>Scientific Reports</i> , 2022, 12, 1957.	3.3	2

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127	Constructing ternary phase diagrams directly from EPMA compositional maps. <i>Microscopy and Microanalysis</i> , 2008, 14, 1276-1277.	0.4	1
128	Large dataset generation, integration and simulation in materials science. <i>Jom</i> , 2011, 63, 24-24.	1.9	1
129	Digital Physical Property Data for the Materials Genome Initiative. <i>Journal of Phase Equilibria and Diffusion</i> , 2012, 33, 258-259.	1.4	1
130	Nonlinear Arrhenius behavior of self-diffusion in Ti and Mo . <i>Physical Review Materials</i> , 2022, 6, .	2.4	1
131	Celebrating the 80th Birthday of Professor Zhanpeng Jin. <i>Journal of Phase Equilibria and Diffusion</i> , 2018, 39, 455-455.	1.4	0
132	A Review of Residential-Scale Natural Gas-Powered Micro-Combined Heat and Power Engine Systems. <i>Energy, Environment, and Sustainability</i> , 2019, , 381-419.	1.0	0