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List of Publications by Year in descending order

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140 papers	4,539 citations	94433 37 h-index	123424 61 g-index
150 all docs	150 docs citations	150 times ranked	3858 citing authors

#	Article	IF	Citations
1	Aluminumâ€“Lithium alloy development for thixoforming. International Journal of Materials Research, 2022, 95, 1097-1107.	0.3	1
2	Enhanced precipitation strengthening of multi-principal element alloys by Î³- and B2-phases. Materials and Design, 2021, 198, 109315.	7.0	19
3	Microstructural evolution and mechanical properties of CoCrFeNiMnTi_x highâ€entropy alloys. Materialwissenschaft Und Werkstofftechnik, 2021, 52, 441-451.	0.9	9
4	Thermodynamic modelling of the Alâ€“Coâ€“Fe system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 74, 102288.	1.6	4
5	Algorithms useful for calculating multi-component equilibria, phase diagrams and other kinds of diagrams. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 75, 102330.	1.6	6
6	Combined Al and C alloying enables mechanism-oriented design of multi-principal element alloys: Ab initio calculations and experiments. Scripta Materialia, 2020, 178, 366-371.	5.2	18
7	Comparative Study of the Tempering Behavior of Different Martensitic Steels by Means of In-Situ Diffractometry and Dilatometry. Materials, 2020, 13, 5058.	2.9	14
8	Thermodynamic modelling of the Alâ€“Coâ€“Mn system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 71, 101793.	1.6	7
9	A method for handling the extrapolation of solid crystalline phases to temperatures far above their melting point. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101737.	1.6	19
10	Experimental observation of Î³-phase formation sequences by in-situ synchrotron diffraction. Materials Letters, 2019, 241, 111-114.	2.6	2
11	Thermodynamic modelling of the Ni-V system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 65, 273-281.	1.6	8
12	A CALPHAD assessment of the Alâ€“Mnâ€“C system supported by ab initio calculations. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 60, 231-239.	1.6	10
13	Experimental investigation of solidification and isothermal sections at 1000 and 1100ÂÂ°C in the Al-Fe-Mn-C system with special attention to the kappa-phase. Journal of Alloys and Compounds, 2018, 735, 1211-1218.	5.5	4
14	Numerical Prediction of the Microstructure and Stress Evolution During Surface Grinding of AISI 52100 (DIN 100Cr6). Integrating Materials and Manufacturing Innovation, 2018, 7, 202-213.	2.6	5
15	Combining thermodynamic modeling and 3D printing of elemental powder blends for high-throughput investigation of high-entropy alloys â€“ Towards rapid alloy screening and design. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 180-189.	5.6	145
16	PrecHiMn-4â€”A thermodynamic database for high-Mn steels. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 56, 49-57.	1.6	34
17	Experimental investigation of the Al-Mn-C system. Part II: Liquidus and solidus projections. Journal of Alloys and Compounds, 2017, 695, 3445-3456.	5.5	8
18	Experimental investigation of the Al-Mn-C system: Part I. Phase equilibria at 1200 and 1100ÂÂ°C. Journal of Alloys and Compounds, 2017, 700, 238-246.	5.5	8

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19	On the deformation behavior of Î³-carbide-free and Î³-carbide-containing high-Mn light-weight steel. Acta Materialia, 2017, 122, 332-343.	7.9	153
20	Using the PARROT module of Thermo-Calc with the Crâ€“Ni system as example. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 55, 260-269.	1.6	32
21	Liquidus projection and thermodynamic modeling of the Cr-Fe-Nb ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 54, 1-15.	1.6	19
22	Experimental determination of the thermodynamic properties of the Laves phases in the Crâ€“Feâ€“Nb system. Thermochimica Acta, 2016, 624, 47-54.	2.7	16
23	Calorimetric measurements and assessment of the binary Cuâ€“Si and ternary Alâ€“Cuâ€“Si phase diagrams. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 53, 25-38.	1.6	23
24	Cocrystallization of Max-Phases in the Tiâ€“Alâ€“C System. Powder Metallurgy and Metal Ceramics, 2015, 54, 471-481.	0.8	4
25	Modeling of Feâ€“W phase diagram using first principles and phonons calculations. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 50, 92-104.	1.6	32
26	The Crâ€“Feâ€“Nb ternary system: Experimental isothermal sections at 700ÂÂ°C, 1050ÂÂ°C and 1350ÂÂ°C. Journal of Alloys and Compounds, 2015, 648, 168-177.	5.5	14
27	Thermodynamic description of the Alâ€“Câ€“Ti system. Journal of Alloys and Compounds, 2015, 623, 480-496.	5.5	67
28	Low-Density Steels: Complex Metallurgy for Automotive Applications. Jom, 2014, 66, 1747-1758.	1.9	86
29	A thermodynamic evaluation of the Feâ€“Crâ€“C system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 46, 24-33.	1.6	54
30	Thermodynamic modelling of crystalline unary phases. Physica Status Solidi (B): Basic Research, 2014, 251, 14-32.	1.5	55
31	A New Theoretical Study of the Cr-Nb System. Journal of Phase Equilibria and Diffusion, 2014, 35, 434-444.	1.4	24
32	The Feâ€“Mn enthalpy phase diagram from first principles. Journal of Alloys and Compounds, 2013, 577, 370-375.	5.5	15
33	Thermodynamic assessment of the Feâ€“Nbâ€“V system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 43, 143-148.	1.6	8
34	Development of thin film cathodes for lithium-ion batteries in the material system Liâ€“Mnâ€“O by r.f. magnetron sputtering. Thin Solid Films, 2013, 528, 217-223.	1.8	32
35	Structural transformation of sputtered o-LiMnO2 thin-film cathodes induced by electrochemical cycling. Thin Solid Films, 2013, 549, 263-267.	1.8	8
36	Thermodynamic description of the layered O3 and O2 structural LiCoO2â€“CoO2 pseudo-binary systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 41, 6-15.	1.6	26

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37	Thermodynamic assessment of Fe3Mn3Nb3N and Nb3C3Nsystems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 40, 10-15.	1.6	15
38	Thermodynamic evaluation of the Alâ€“Vâ€“C system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 41, 156-159.	1.6	8
39	Thermodynamic assessment of Crâ€“Nbâ€“C and Mnâ€“Nbâ€“C systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 39, 54-61.	1.6	26
40	Thermodynamic description of the Feâ€“Mnâ€“Nbâ€“C system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 39, 62-69.	1.6	28
41	Ab initio calculations and thermodynamic modeling for the Feâ€“Mnâ€“Nb system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 38, 43-58.	1.6	46
42	Thermodynamic and Electrochemical Properties of the Liâ€“Coâ€“O and Liâ€“Niâ€“O Systems. Chemistry of Materials, 2012, 24, 97-105.	6.7	42
43	Viscosity of Alâ€“Cu liquid alloys: measurement and thermodynamic description. Journal of Materials Science, 2012, 47, 8145-8152.	3.7	71
44	Is zinc HCP_ZN or HCP_A3?. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 37, 34-36.	1.6	14
45	Thermodynamic description of the LiNiO2â€“NiO2 pseudo-binary system and extrapolation to the Li(Co,Ni)O2â€“(Co,Ni)O2 system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 37, 100-107.	1.6	32
46	Combined ab initio, experimental, and CALPHAD approach for an improved thermodynamic evaluation of the Mgâ€“Si system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 37, 77-86.	1.6	19
47	Chemical characterisation of scale formation of high manganese steels (Fe-Mn23-C0.6) on the sub-micrometre scale: a challenge for EPMA. IOP Conference Series: Materials Science and Engineering, 2012, 32, 012001.	0.6	2
48	Solvus Composition Paths in Multicomponent Alloys-Experimental Approach and Correlation with Calphad Calculations for the Example Al-Mg-Si. Advanced Engineering Materials, 2012, 14, 319-323.	3.5	8
49	Density and thermal expansion of liquid Alâ€“Si alloys. Journal of Materials Science, 2012, 47, 3706-3712.	3.7	48
50	Thermodynamic assessment of the Liâ€“O system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2011, 35, 160-164.	1.6	24
51	Thermodynamic assessment of the Feâ€“Mnâ€“C system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2011, 35, 479-491.	1.6	86
52	Oxidation of Cr2AlC coatings in the temperature range of 1230 to 1410Â°C. Surface and Coatings Technology, 2011, 206, 591-598.	4.8	80
53	Determination of Hydrogen Solubility in Feâ€“Mnâ€“C Melts. Steel Research International, 2011, 82, 108-113.	1.8	8
54	On the solubility of yttrium in RuO2. Journal of Applied Physics, 2011, 110, 054317.	2.5	5

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55	Modeling of Coating Process, Phase Changes, and Damage of Plasma Sprayed Thermal Barrier Coatings on Niâ€Base Superalloys. Advanced Engineering Materials, 2010, 12, 110-126.	3.5	30
56	Modeling the Porosity Formation in Austenitic SGI Castings by Using a Physics-Based Material Model. Advanced Engineering Materials, 2010, 12, 158-169.	3.5	4
57	Thermal and chemical stability of Cr₂AlC in contact with Î±-Al₂O₃and NiAl. International Journal of Materials Research, 2010, 101, 1519-1523.	0.3	11
58	Thermodynamic properties of cementite (). Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2010, 34, 129-133.	1.6	72
59	Thermodynamic assessment of the Mnâ€“C system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2010, 34, 279-285.	1.6	49
60	Ab initiolattice stability of fcc and hcp Feâ€“Mn random alloys. Journal of Physics Condensed Matter, 2010, 22, 295402.	1.8	25
61	2nd Sino-German Symposium on Computational Thermodynamics and Kinetics and their Applications to Solidification. International Journal of Materials Research, 2010, 101, 1331-1331.	0.3	0
62	Strength degradation of NiAl coated sapphire fibres with a V2AlC interlayer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 525, 200-206.	5.6	4
63	Modelling of interstitials in the bcc phase. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 233-236.	1.6	9
64	Interface formation in aluminiumâ€“aluminium compound casting. Acta Materialia, 2008, 56, 3036-3043.	7.9	105
65	Use of Calphad Thermodynamics to Simulate Phase Formation during Semi-Solid Processing. Solid State Phenomena, 2008, 141-143, 641-646.	0.3	0
66	Free energy of bcc iron: Integratedab initioderivation of vibrational, electronic, and magnetic contributions. Physical Review B, 2008, 78, .	3.2	188
67	From binary assessments to thermodynamic databases. International Journal of Materials Research, 2008, 99, 589-597.	0.3	2
68	1st Sino-German Symposium on Computational Thermodynamics and Kinetics and their Applications to Solidification. International Journal of Materials Research, 2008, 99, 580-581.	0.3	0
69	Melting of a tool steel. , 2008, , 392-397.		1
70	Thermodynamic assessment of the Alâ€“Li system. International Journal of Materials Research, 2007, 98, 961-969.	0.3	53
71	Thermodynamic models for crystalline phases. Composition dependent models for volume, bulk modulus and thermal expansion. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 28-37.	1.6	51
72	Molar volumes of Al, Li, Mg and Si. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 292-302.	1.6	39

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73	On the microstructure formation in chromium steels rapidly cooled from the semi-solid state. Acta Materialia, 2007, 55, 1033-1042.	7.9	72
74	On the microstructure and properties of 100Cr6 steel processed in the semi-solid state. Acta Materialia, 2007, 55, 6553-6560.	7.9	63
75	Heat balances and heat capacity calculations. Journal of Solid State Electrochemistry, 2007, 11, 1399-1404.	2.5	1
76	Thermodynamic evaluation of the Alâ€“Crâ€“C system. International Journal of Materials Research, 2006, 97, 539-542.	0.8	26
77	Microstructure Control and Structure Analysis in the Semi-Solid State of Different Feedstock Materials for the Bearing Steel 100Cr6. Solid State Phenomena, 2006, 116-117, 177-180.	0.3	3
78	Thermodynamic modeling of the Laâ€“Mnâ€“Yâ€“Zrâ€“O system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2006, 30, 489-500.	1.6	21
79	Semi-solid Processing of Alloys: Principles, Thermodynamic Selection Criteria, Applicability. ISIJ International, 2006, 46, 1852-1857.	1.4	21
80	Interface structure, chemistry and properties of NiAl composites fabricated from matrix-coated single-crystalline Al2O3 fibres (sapphire) with and without an hBN interlayer. Acta Materialia, 2006, 54, 2473-2488.	7.9	36
81	Integrated Approach for the Development of Advanced, Coated Gas Turbine Blades. Advanced Engineering Materials, 2006, 8, 535-562.	3.5	19
82	Thermodynamic Criteria for the Selection of Alloys Suitable for Semi-Solid Processing. Steel Research International, 2005, 76, 92-98.	1.8	18
83	Simulation of the solidification of CMSX-4. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 397, 385-390.	5.6	43
84	Thermodynamic modeling of phase equilibria in the Mnâ€“Yâ€“Zrâ€“O system. Solid State Ionics, 2005, 176, 1457-1464.	2.7	32
85	Thermodynamic Assessment of the Mnâ€”Yâ€”O System.. ChemInform, 2005, 36, no.	0.0	0
86	Assessment of the La-Mn-O system. Journal of Phase Equilibria and Diffusion, 2005, 26, 131-151.	1.4	35
87	Thermodynamic assessment of the Mnâ€“Yâ€“O system. Journal of Alloys and Compounds, 2005, 393, 114-121.	5.5	27
88	CALPHAD modeling of the La2O3â€“Y 2O3 system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2005, 29, 103-113.	1.6	17
89	Assessment of the La-Mn-O System. Journal of Phase Equilibria and Diffusion, 2005, 26, 131-151.	1.4	2
90	Assessment of the Sr-Mn-O system. Journal of Phase Equilibria and Diffusion, 2004, 25, 311-319.	1.4	19

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91	Thermodynamic assessment of the BiOxâ€“SrOâ€“CaO system. Physica C: Superconductivity and Its Applications, 2004, 406, 189-200.	1.2	1
92	Thermodynamic calculation of the BiO1.5â€“CaOâ€“CuOx system. Physica C: Superconductivity and Its Applications, 2004, 406, 201-204.	1.2	0
93	Enhanced residual secondary phase dissolution by atmosphere control in Bi-2212 superconductors. Physica C: Superconductivity and Its Applications, 2004, 405, 103-116.	1.2	10
94	Thermodynamic modeling of the ZrO2â€“YO1.5 system. Solid State Ionics, 2004, 170, 255-274.	2.7	115
95	LaMnO perovskites modelled with and without antisite defects using the CALPHAD approach. Solid State Ionics, 2004, 173, 17-21.	2.7	17
96	Assessment of the Laâ€“Srâ€“Mnâ€“O system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2004, 28, 191-201.	1.6	42
97	Assessment of the Sr-Mn-O System. Journal of Phase Equilibria and Diffusion, 2004, 25, 311-319.	1.4	2
98	Thermodynamic assessment of the Co-O system. Journal of Phase Equilibria and Diffusion, 2003, 24, 212-227.	0.3	126
99	Assessment of the Mn-O system. Journal of Phase Equilibria and Diffusion, 2003, 24, 21-39.	0.3	25
100	CeO2â€”CoO Phase Diagram.. ChemInform, 2003, 34, no.	0.0	0
101	CeO₂â^'CoO Phase Diagram. Journal of the American Ceramic Society, 2003, 86, 1567-1570.	3.8	47
102	Revision of the thermodynamic descriptions of the Cuâ€“O, Agâ€“O, Agâ€“Cuâ€“O, Biâ€“Srâ€“O, Biâ€“Caâ€“O, Biâ€“Cuâ€“O, Srâ€“Cuâ€“O, Caâ€“Cuâ€“O and Srâ€“Caâ€“Cuâ€“O systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2003, 27, 177-191.	1.6	64
103	Assessment of the M n-O System. Journal of Phase Equilibria and Diffusion, 2003, 24, 21-39.	0.3	15
104	Experimental phase diagram determination and thermodynamic assessment of the La2O3â€“SrO system. Acta Materialia, 2002, 50, 2209-2222.	7.9	19
105	Thermodynamic assessment of the lanthanum-oxygen system. Journal of Phase Equilibria and Diffusion, 2001, 22, 105-113.	0.3	60
106	Thermodynamic Optimization of the Silverâ€”Bismuthâ€”Strontiumâ€”Calciumâ€”Copperâ€”Oxygen (Agâ€Biâ€Srâ€Caâ€Cuâ€O) System. Journal of the American Ceramic Society, 2000, 83, 911-914.	3.8	6
107	Experimental Phase Diagram Study and Thermodynamic Optimization of the Agâ€Biâ€O System. Journal of the American Ceramic Society, 1999, 82, 711-715.	3.8	19
108	Experimental Phaseâ€Diagram Study and Thermodynamic Optimization of the Silverâ€Strontiumâ€Copperâ€Oxygen (Agâ€Srâ€Cuâ€O) and Silverâ€Calciumâ€Copperâ€Oxygen (Agâ€Caâ€Cuâ€O) Systems. Journal of the American Ceramic Society, 1999, 82, 3591-3596.	3.8	4

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109	Thermodynamic assessment of the Ag-Cu-O system. Journal of Phase Equilibria and Diffusion, 1998, 19, 351-360.	0.3	23
110	Thermodynamic assessment of the Fe-FeS-MnS-Mn system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1998, 22, 257-273.	1.6	18
111	Thermodynamic Assessment of the Strontiumâ€“Copperâ€“Oxygen System. Journal of the American Ceramic Society, 1997, 80, 527-536.	3.8	15
112	Thermodynamic Modeling and Calculation of Phase Equilibria in the Strontiumâ€“Calciumâ€“CopperOxygen System at Ambient Pressure. Journal of the American Ceramic Society, 1997, 80, 537-550.	3.8	10
113	Thermodynamic Assessment of the Bismuthâ€“Strontiumâ€“Oxygen Oxide System. Journal of the American Ceramic Society, 1997, 80, 1085-1094.	3.8	19
114	Thermodynamic Assessment of the Bismuthâ€“Calciumâ€“Oxygen Oxide System. Journal of the American Ceramic Society, 1997, 80, 2629-2636.	3.8	21
115	Thermodynamic Assessment of the Silverâ€“Oxygen System. Journal of the American Ceramic Society, 1997, 80, 3054-3060.	3.8	78
116	Thermodynamic optimization of the Ca-Cu and Sr-Cu systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1996, 20, 151-160.	1.6	26
117	The strontium-oxygen system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1996, 20, 353-361.	1.6	45
118	Critical current densities in Bi-2212 thick films. Physica C: Superconductivity and Its Applications, 1996, 257, 151-159.	1.2	32
119	Thermodynamic Evaluation of the Bi-Cu-O System. Journal of the American Ceramic Society, 1996, 79, 353-358.	3.8	39
120	Thermodynamic Assessment of the Ca-Cu-O System. Journal of the American Ceramic Society, 1995, 78, 2655-2661.	3.8	27
121	Thermodynamic Assessment of the CaO-MgO-Al2O3 System. Journal of the American Ceramic Society, 1995, 78, 193-198.	3.8	24
122	The bismuth-oxygen system. Journal of Phase Equilibria and Diffusion, 1995, 16, 223.	0.3	80
123	Modelling of Thermodynamics and Phase Equilibria in Selected Subsystems of the Bi-Sr-Ca-Cu-O System. , 1995, , 361-364.		2
124	Thermodynamic assessment of the copper-oxygen system. Journal of Phase Equilibria and Diffusion, 1994, 15, 483-499.	0.3	99
125	Modelling of acid and basic slags. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1994, 18, 31-37.	1.6	32
126	Thermodynamic calculation of some subsystems of the Al-Ca-Mg-Si-O system. Journal of Phase Equilibria and Diffusion, 1993, 14, 662-675.	0.3	40

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127	Reactions in Al2O3î—¸Mg metal matrix composites during prolonged heat treatment at 400, 550 and 600Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 169, 149-157.	5.6	11
128	The Magnesium â€" Oxygen system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1993, 17, 281-286.	1.6	28
129	Thermodynamic assessment of the Silicon â€" Oxygen system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1992, 16, 53-61.	1.6	51
130	Thermodynamic Assessment of the System MgO-Al2O3. Journal of the American Ceramic Society, 1992, 75, 1497-1507.	3.8	225
131	The compound energy model for ionic solutions with applications to solid oxides. Journal of Phase Equilibria and Diffusion, 1992, 13, 459-475.	0.3	88
132	Assessment of the CaO-Al2O3 System. Journal of the American Ceramic Society, 1990, 73, 15-23.	3.8	213
133	Fibre-matrix interactions during fabrication of Al2O3î—¸Mg metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 129, 135-145.	5.6	56
134	On the dilute solution laws for ionic compounds. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1990, 14, 23-26.	1.6	3
135	Simulation of Phase Changes During Thermal Treatments of Various Metal Alloys (TP B2). , 0, , 149-160.		0
136	Aluminum Through-Process Modeling: From Casting to Cup Drawing (TP C6). , 0, , 17-32.		0
137	Status of Through-Process Simulation for Coated Gas Turbine Components (TP C8). , 0, , 49-61.		0
138	Microstructure Modeling During Solidification of Castings (TP A2). , 0, , 87-101.		0
139	Coating of Turbine Blades (TP A3). , 0, , 103-124.		0
140	Thermochemical Simulation of Phase Formation. , 0, , 147-166.		1