George Kaptay

List of Publications by Year in Descending Order

143 papers	2,909 citations	29 h-index	48 g-index
160 ext. papers	3,268 ext. citations	3.3 avg, IF	6.31 L-index

#	Paper	IF	Citations
143	Boride Coatings on Steel Protecting it Against Corrosion by a Liquid Lead-Free Solder Alloy. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2022**, 53, 730	2.5	0
142	Spontaneous inversion of the submicron ceramic layer deposited on steel and the copper droplet positioned on their top (case of ceramic poorly wetted by liquid Cu). *Journal of Materials Science*, **2022**, 57, 1648-1668	4.3	
141	Complex Avrami kinetics of TiB2 transformation into TiB whiskers during sintering of Ti-TiB2 nanocomposites. *Journal of Alloys and Compounds*, **2022**, 894, 162442	5.7	0
140	A new model for thermal conductivity of □ontinuous matrix / dispersed and separated 3D-particles□type composite materials and its application to WC-M (M = Co, Ag) systems. *Journal of Materials Science and Technology*, **2022**, 97, 123-133	9.1	3
139	Large NaCl-effect on the Decomposition Rate of Chlorate Ions in HCl-containing Brine Solutions and Its Consequences for the Chlor-alkali Industry. *Periodica Polytechnica: Chemical Engineering*, **2021**, 65, 238-242	1.3	2
138	Acoustic-Pressure-Assisted Engineering of Aluminum Foams. *Advanced Engineering Materials*, **2021**, 23, 2100306	3.5	
137	Synthesis, characterisation and thermal behaviour of Cu-based nano-multilayer. *Journal of Materials Science*, **2021**, 56, 7823-7839	4.3	4
136	Preface to the special section on high-temperature capillarity. *Journal of Materials Science*, **2021**, 56, 7789-7790	4.3	
135	A new model to describe composition and temperature dependence of thermal conductivity for solution phases in binary alloys. *Journal of Materials Science and Technology*, **2020**, 59, 72-82	9.1	3
134	Cracking of Copper Brazed Steel Joints Due to Precipitation of MnS upon Cooling. *Journal of Materials Engineering and Performance*, **2020**, 29, 8183-8193	1.6	2
133	A coherent set of model equations for various surface and interface energies in systems with liquid and solid metals and alloys. *Advances in Colloid and Interface Science*, **2020**, 283, 102212	14.3	22
132	The k-index is introduced to replace the h-index to evaluate better the scientific excellence of individuals. *Heliyon*, **2020**, 6, e04415	3.6	8
131	Development of Ag nanoparticles on the surface of Ti powders by chemical reduction method and investigation of their antibacterial properties. *Applied Surface Science*, **2020**, 533, 147494	6.7	8
130	Thermodynamic Stability of Nano-grained Alloys Against Grain Coarsening and Precipitation of Macroscopic Phases. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 4931-4947	2.3	5
129	OpenIEC: an open-source code for interfacial energy calculation in alloys. *Journal of Materials Science*, **2019**, 54, 10297-10311	4.3	9
128	The behaviour of steel coated with TiB2 in Sn-Ag-Cu melt. *Materials Science and Technology*, **2019**, 35, 680-686	1.5	3
127	Super-paramagnetic magnetite nanoparticles obtained by different synthesis and separation methods stabilized by biocompatible coatings. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 568, 113-122	5.1	20

126	A correction to "parallel tangent" method for modelling segregation to grain boundaries and other interfaces for components of different atomic sizes. *Scripta Materialia*, **2019**, 172, 47-50	5.6	3
125	Modelling the viscosity of liquid alloys with associates. *Journal of Molecular Liquids*, **2019**, 291, 111345	6	4
124	Improved Derivation of the Butler Equations for Surface Tension of Solutions. *Langmuir*, **2019**, 35, 10987-10992	4	18
123	Electrokinetic Potential and Size Distribution of Magnetite Nanoparticles Stabilized by Poly(vinyl Pyrrolidone). *Colloid Journal*, **2019**, 81, 773-778	1.1	1
122	The nano heat effect of replacing macro-particles by nano-particles in drop calorimetry: the case of core/shell metal/oxide nano-particles.. *RSC Advances*, **2018**, 8, 8856-8869	3.7	5
121	The chemical (not mechanical) paradigm of thermodynamics of colloid and interface science. *Advances in Colloid and Interface Science*, **2018**, 256, 163-192	14.3	34
120	Investigation of dissolution resistance of blank and gas-nitrided carbon steels in stationary SAC305 solder alloy melt. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2018**, 54, 283-290	1	3
119	On the solid/liquid interfacial energies of metals and alloys. *Journal of Materials Science*, **2018**, 53, 3767-3784	4	20
118	Modelling surface melting of macro-crystals and melting of nano-crystals for the case of perfectly wetting liquids in one-component systems using lead as an example. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2018**, 63, 37-50	1.9	10
117	On the Size Dependence of Molar and Specific Properties of Independent Nano-phases and Those in Contact with Other Phases. *Journal of Materials Engineering and Performance*, **2018**, 27, 5023-5029	1.6	5
116	The exponential excess Gibbs energy model revisited. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 169-184	1.9	33
115	The influence of the phosphorous content and heat treatment on the nano-micro-structure, thickness and micro-hardness of electroless Ni-P coatings on steel. *Applied Surface Science*, **2017**, 423, 160-169	6.7	58
114	Prediction of Phase Separation of Immiscible Ga-Tl Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 3130-3136	2.3	4
113	A new paradigm on the chemical potentials of components in multi-component nano-phases within multi-phase systems. *RSC Advances*, **2017**, 7, 41241-41253	3.7	20
112	On the Negative Surface Tension of Solutions and on Spontaneous Emulsification. *Langmuir*, **2017**, 33, 10550-10560	4	16
111	Derivation of the Butler equation from the requirement of the minimum Gibbs energy of a solution phase, taking into account its surface area. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 533, 296-301	5.1	17
110	Honorary note to celebrate the 80th birthday of professor Sándor Bátay. *Advances in Colloid and Interface Science*, **2017**, 243, 1-7	14.3	
109	Effect of Wetting Agent and Carbide Volume Fraction on the Wear Response of Aluminum Matrix Composites Reinforced by WC Nanoparticles and Aluminide Particles. *Archives of Metallurgy and Materials*, **2017**, 62, 1235-1242		9

108	Ti oxidation states in Zn(Ti) coating of hot-dip galvanized steels. *Surface and Coatings Technology*, **2017**, 326, 121-125	4.4	4
107	On the Configurational Entropy of Nanoscale Solutions for More Accurate Surface and Bulk Nano-Thermodynamic Calculations. *Entropy*, **2017**, 19, 248	2.8	9
106	Coloring hot-dip galvanization of steel samples in industrial zinc-manganese baths. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2017**, 53, 319-326	1	2
105	TiC crystallite formation and the role of interfacial energies on the composition during the deposition process of TiC/a:C thin films. *Surface and Coatings Technology*, **2016**, 302, 410-419	4.4	15
104	On the General Material Balance Equation(S) to Calculate Quasi-Binary Sections of Multi-Component Phase Diagrams. *Archives of Metallurgy and Materials*, **2016**, 61, 75-78		
103	Designing the Color of Hot-Dip Galvanized Steel Sheet Through Destructive Light Interference Using a Zn-Ti Liquid Metallic Bath. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 3580-3596	2.3	6
102	Melting Point Depression and Fast Diffusion in Nanostructured Brazing Fillers Confined Between Barrier Nanolayers. *Journal of Materials Engineering and Performance*, **2016**, 25, 3275-3284	1.6	25
101	Enthalpy Effect of Adding Cobalt to Liquid Sn-3.8Ag-0.7Cu Lead-Free Solder Alloy: Difference between Bulk and Nanosized Cobalt. *Journal of Physical Chemistry C*, **2016**, 120, 1881-1890	3.8	17
100	Modelling equilibrium grain boundary segregation, grain boundary energy and grain boundary segregation transition by the extended Butler equation. *Journal of Materials Science*, **2016**, 51, 1738-1755	4.3	31
99	Partial surface tension of components of a solution. *Langmuir*, **2015**, 31, 5796-804	4	55
98	Direct observation of the segregation driven by bubble evolution and liquid phase separation in Al□0 wt.% Bi immiscible alloy. *Scripta Materialia*, **2015**, 102, 19-22	5.6	20
97	Approximated equations for molar volumes of pure solid fcc metals and their liquids from zero Kelvin to above their melting points at standard pressure. *Journal of Materials Science*, **2015**, 50, 678-687	4.3	20
96	Aluminium reinforced by WC and TiC nanoparticles (ex-situ) and aluminide particles (in-situ): Microstructure, wear and corrosion behaviour. *Materials & Design*, **2015**, 65, 1121-1135		109
95	Microstructure And Mechanical Properties Of Al-WC Composites. *Archives of Metallurgy and Materials*, **2015**, 60, 1517-1521		9
94	Theoretical Analysis of Melting Point Depression of Pure Metals in Different Initial Configurations. *Journal of Materials Engineering and Performance*, **2014**, 23, 1600-1607	1.6	30
93	Interfacial Design for Joining Technologies: An Historical Perspective. *Journal of Materials Engineering and Performance*, **2014**, 23, 1608-1613	1.6	26
92	A Method to Estimate Interfacial Energy between Eutectic Solid Phases from the Results of Eutectic Solidification Experiments. *Materials Science Forum*, **2014**, 790-791, 133-139	0.4	3
91	Brownian Motion Effects on Particle Pushing and Engulfment During Solidification in Metal-Matrix Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 4635-4645	2.3	16

90	The sol–gel synthesis of cotton/TiO2 composites and their antibacterial properties. *Surface and Coatings Technology*, **2014**, 253, 171-179	4.4	59
89	On the abilities and limitations of the linear, exponential and combined models to describe the temperature dependence of the excess Gibbs energy of solutions. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 44, 81-94	1.9	22
88	Effect of Y and Ni addition on liquid immiscibility in Cu–Zr–Ag ternary alloys. *Journal of Alloys and Compounds*, **2014**, 615, S616-S620	5.7	6
87	Wettability of graphite by liquid aluminum under molten potassium halide fluxes. *Journal of Materials Science*, **2013**, 48, 7679-7685	4.3	9
86	An Improved Theoretical Model for A-TIG Welding Based on Surface Phase Transition and Reversed Marangoni Flow. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 351-361	2.3	30
85	Measurement and modelling of the wettability of graphite by a silver–tin (Ag–Sn) liquid alloy. *Applied Surface Science*, **2013**, 268, 52-60	6.7	29
84	Fabrication of carbon fiber reinforced aluminum matrix composites via a titanium-ion containing flux. *Composites Part A: Applied Science and Manufacturing*, **2013**, 44, 47-50	8.4	37
83	A Unified Theoretical Framework to Model Bulk, Surface and Interfacial Thermodynamic Properties of Immiscible Liquid Alloys. *Materials Science Forum*, **2013**, 752, 10-19	0.4	3
82	On the size and shape dependence of the solubility of nano-particles in solutions. *International Journal of Pharmaceutics*, **2012**, 430, 253-7	6.5	90
81	The conversion of phase diagrams of solid solution type into electrochemical synthesis diagrams for binary metallic systems on inert cathodes. *Electrochimica Acta*, **2012**, 60, 401-409	6.7	6
80	Thermodynamic description of the Al–Mg–Si system using a new formulation for the temperature dependence of the excess Gibbs energy. *Thermochimica Acta*, **2012**, 527, 131-142	2.9	54
79	On the Tendency of Solutions to Tend Toward Ideal Solutions at High Temperatures. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 531-543	2.3	67
78	Nano-Calphad: extension of the Calphad method to systems with nano-phases and complexions. *Journal of Materials Science*, **2012**, 47, 8320-8335	4.3	97
77	Stable miscibility gap in liquid Cu–Zr–Ag ternary alloy. *Journal of Alloys and Compounds*, **2012**, 541, 353-358	5.7	13
76	On the Order–Disorder Surface Phase Transition and Critical Temperature of Pure Metals Originating from BCC, FCC, and HCP Crystal Structures. *International Journal of Thermophysics*, **2012**, 33, 1177-1190	2.1	6
75	Stabilization of metallic emulsions by in-situ precipitating intermetallic layers. *Intermetallics*, **2012**, 26, 26-30	3.5	8
74	On the interfacial energy of coherent interfaces. *Acta Materialia*, **2012**, 60, 6804-6813	8.4	36
73	Particle Stabilized Foams **2012**, 121-143		4

72	Fabrication of carbon fibre reinforced, aluminium matrix composite by potassium iodide (KI) – potassium hexafluoro-titanate (K2TiF6) flux. *Materialwissenschaft Und Werkstofftechnik*, **2012**, 43, 310-314	0.9	13
71	On the optimum contact angle of stability of foams by particles. *Advances in Colloid and Interface Science*, **2012**, 170, 87-8	14.3	5
70	The Gibbs equation versus the Kelvin and the Gibbs-Thomson equations to describe nucleation and equilibrium of nano-materials. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 2625-33	1.3	51
69	Surface grain coarsening and surface softening during machining of ultra-fine grained titanium. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2012**, 48, 449-459	1	4
68	Interfacial Forces in Dispersion Science and Technology. *Journal of Dispersion Science and Technology*, **2012**, 33, 130-140	1.5	18
67	Formation of nanoparticles by ion beam irradiation of thin films. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 5009-15	1.3	1
66	On the atomic masses (weights?) Of the elements. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2012**, 48, 153-159	1	1
65	Monotectic Al/Cd alloys with homogeneously dispersed Cd-droplets stabilized by strontium aluminide precipitates. *Intermetallics*, **2011**, 19, 423-425	3.5	10
64	Performance of a cutting tool made of steel matrix surface nano-composite produced by in situ laser melt injection technology. *Journal of Materials Processing Technology*, **2011**, 211, 750-758	5.3	17
63	Fabrication of SiC-Particles-Shielded Al Spheres upon Recycling Al/SiC Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 1439-1443	2.3	5
62	Inversion of a liquid Bi/Al metallic emulsion stabilized by solid SiC particles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 377, 325-329	5.1	11
61	On the five base quantities of nature and SI (The International System of Units). *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2011**, 47, 241-246	1	
60	Classification of laser beam induced surface engineering technologies and in situ synthesis of steel matrix surface nanocomposites. *Surface Engineering*, **2011**, 27, 428-435	2.6	6
59	Diffusion of Carbon in the Centerline Region of Continuous Cast Slabs. *Materials Science Forum*, **2010**, 659, 441-446	0.4	1
58	The extension of the phase rule to nano-systems and on the quaternary point in one-component nano phase diagrams. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 8164-70	1.3	10
57	Wettability of SiC and alumina particles by liquid Bi under liquid Al. *Journal of Materials Science*, **2010**, 45, 2090-2098	4.3	13
56	Guest Editors' Editorial: HTC-2009. *Journal of Materials Science*, **2010**, 45, 1977-1978	4.3	1
55	Perfect wettability of carbon by liquid aluminum achieved by a multifunctional flux. *Journal of Materials Science*, **2010**, 45, 5177-5190	4.3	31

54	In-situ synthesis of a carbide reinforced steel matrix surface nanocomposite by laser melt injection technology and subsequent heat treatment. *Surface and Coatings Technology*, **2009**, 203, 3049-3057	4.4	27
53	A New Class of Engineering Materials: Particle-Stabilized Metallic Emulsions and Monotectic Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2009**, 40, 1524-1528	2.3	18
52	Influence of current density on the erosion of a graphite cathode and electrolytic formation of carbon nanotubes in molten NaCl and LiCl. *Electrochimica Acta*, **2009**, 54, 6725-6731	6.7	26
51	The separation of carbon nanotubes from chlorides. *Carbon*, **2009**, 47, 1195-1198	10.4	9
50	A Calphad-compatible method to calculate liquid/liquid interfacial energies in immiscible metallic systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2008**, 32, 338-352	1.9	35
49	A new theoretical equation for temperature dependent self-diffusion coefficients of pure liquid metals. *International Journal of Materials Research*, **2008**, 99, 14-17	0.5	21
48	A unified model for the cohesive enthalpy, critical temperature, surface tension and volume thermal expansion coefficient of liquid metals of bcc, fcc and hcp crystals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 495, 19-26	5.3	84
47	Link between the Semi-empirical Andrade and Schytil Equations and the Statistical-Mechanical Born□Green Equation for Viscosity and Surface Tension of Pure Liquid Metals. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2008**, 39, 387-389	2.5	6
46	The threshold pressure of infiltration into fibrous preforms normal to the fibers□axes. *Composites Science and Technology*, **2008**, 68, 228-237	8.6	22
45	Calculation of surface tension and surface phase transition line in binary Ga□□l system. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 495, 65-69	5.3	30
44	Wettability of carbon surfaces by pure molten alkali chlorides and their penetration into a porous graphite substrate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 495, 192-196	5.3	49
43	Modified classical homogeneous nucleation theory and a new minimum in free energy change. *Fluid Phase Equilibria*, **2007**, 254, 67-74	2.5	9
42	Modified classical homogeneous nucleation theory and a new minimum in free energy change. *Fluid Phase Equilibria*, **2007**, 255, 55-61	2.5	4
41	On the Temperature Gradient Induced Interfacial Gradient Force, Acting on Precipitated Liquid Droplets in Monotectic Liquid Alloys. *Materials Science Forum*, **2006**, 508, 269-274	0.4	16
40	On the equation of the maximum capillary pressure induced by solid particles to stabilize emulsions and foams and on the emulsion stability diagrams. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 282-283, 387-401	5.1	235
39	A method to calculate equilibrium surface phase transition lines in monotectic systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2005**, 29, 56-67	1.9	27
38	Classification and general derivation of interfacial forces, acting on phases, situated in the bulk, or at the interface of other phases. *Journal of Materials Science*, **2005**, 40, 2125-2131	4.3	47
37	On the asymmetrical dependence of the threshold pressure of infiltration on the wettability of the porous solid by the infiltrating liquid. *Journal of Materials Science*, **2005**, 40, 2531-2535	4.3	26

36	Intercalation of Sodium and Lithium into Graphite as a First Stage in an Electrochemical Method for Producing Carbon Nanotubes. *Russian Journal of Electrochemistry*, **2005**, 41, 956-963	1.2	12
35	A unified equation for the viscosity of pure liquid metals. *International Journal of Materials Research* , **2005**, 96, 24-31		84
34	Discussion of Thermodynamics of liquid Al-Na alloys determined by using CaF2 solid electrolyte *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2004** , 35, 393-398	2.5	2
33	On different modifications of the capillary model of penetration of inert liquid metals into porous refractories and their connection to the pore size distribution of the refractories. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2004**, 35, 471-486	2.5	11
32	A new equation for the temperature dependence of the excess Gibbs energy of solution phases. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2004**, 28, 115-124	1.9	105
31	A Virtual LD-Steel-Converter. *Materials Science Forum*, **2003**, 414-415, 365-370	0.4	1
30	Interfacial Criteria for Producing Metal Matrix Composites and Ceramic Particle Stabilized Metallic Foams. *Materials Science Forum*, **2003**, 414-415, 419-424	0.4	11
29	Interfacial criteria for stabilization of liquid foams by solid particles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2003**, 230, 67-80	5.1	183
28	Nanotubes: number of Kekul structures and aromaticity. *Journal of Chemical Information and Computer Sciences*, **2003**, 43, 609-14		21
27	An Absolute Scale for the Cohesion Energy of Pure Metals. *Materials Science Forum*, **2003**, 414-415, 235-240	0.4	22
26	Thermodynamics-Based Semi-Empirical Description of the Liquidus Surface and Partition Coefficients in Ternary Al-Mg-Si Alloy. *Materials Science Forum*, **2003**, 414-415, 323-328	0.4	10
25	A Dynamic Model of Ceramic Particle-Solidification Front Interaction. *Materials Science Forum*, **2003** , 414-415, 371-376	0.4	2
24	The Solubility of Nitrogen and Nitrides in Ternary Liquid Iron Alloys. The Limits of the 'Solubility Product' Concept. *Materials Science Forum*, **2003**, 414-415, 491-0	0.4	4
23	Some aspects of the electrochemical formation of carbon micro-tubes from molten chlorides. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2003**, 39, 343-352	1	4
22	Electrochemical study of the electrodeposition and intercalation of sodium into graphite from sodium chloride as the first step of carbon nano-tubes formation. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2003**, 39, 369-381	1	6
21	Equilibrium electrochemical synthesis diagrams of systems, forming homogeneous alloys and compounds. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2003**, 39, 383-405	1	2
20	Reduced critical solidification front velocity of particle engulfment due to an interface active solute in the liquid metal. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2002**, 33, 1869-1873	2.3	9
19	Physical, Chemical, and Electrochemical Behavior of Boron Oxide in Cryolite-Alumina Melts. *Russian Journal of Applied Chemistry*, **2002**, 75, 565-568	0.8	4

18	The Force Acting on a Sphere Moving towards a Solidification Front due to an Interfacial Energy Gradient at the Sphere/Liquid Interface.. *ISIJ International*, **2001**, 41, 305-307	1.7	9
17	Atomic force microscopy investigation of electrochemically produced carbon nanotubes. *Applied Physics A: Materials Science and Processing*, **2001**, 72, S189-S192	2.6	15
16	Interfacial criterion of spontaneous and forced engulfment of reinforcing particles by an advancing solid/liquid interface. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2001**, 32, 993-1005	2.3	51
15	Discussion of microscale simulation of settler processes in copper matte smelting *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2001**, 32, 555-557	2.5	9
14	Electrochemical Synthesis of Titanium Silicides from Molten Salts. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2001**, 56, 739-740	1.4	5
13	Chemical and Electrochemical Behavior of Titanium Diboride in Cryolite-Alumina Melt and in Molten Aluminum. *Journal of Solid State Chemistry*, **2000**, 154, 107-109	3.3	19
12	Further discussion of particle engulfment and pushing by solidifying interfaces: Part II. microgravity experiments and theoretical analysis. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2000**, 31, 1695-1700	2.3	4
11	Electrochemical synthesis of refractory borides from molten salts. *Plasmas & Ions*, **1999**, 2, 45-56		51
10	Discussion of particle engulfment and pushing by solidifying interfaces: Part II. Microgravity experiments and theoretical analysis *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1999**, 30, 1887-1890	2.3	7
9	Chemical and Electrochemical Behaviour of Titanium Oxide and Complexes in Cryolite-Alumina Melts. *High Temperature Material Processes*, **1998**, 2, 497-506	1.8	6
8	Correlation between the abrasive ability of ceramic reinforced amorphous metal matrix composites and the adhesion energy between the amorphous matrix and the ceramic particles. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 1083-1088	5.3	4
7	Interface phenomena in processing of ceramic reinforced amorphous metal composites. *Journal of Non-Crystalline Solids*, **1996**, 205-207, 742-747	3.9	5
6	Comparison of Different Theoretical Models to Experimental Data on Viscosity of Binary Liquid Alloys. *Materials Science Forum*,489-496	0.4	3
5	Modelling Interfacial Energies in Metallic Systems. *Materials Science Forum*,1-10	0.4	2
4	Interfacial Forces: Classification3281-3298		
3	Dynamic Simulation of the Movement of a Ceramic Particle in Front of a Solidifying Interface101-111		
2	Amorphous alloys and differential scanning calorimetry (DSC). *Journal of Thermal Analysis and Calorimetry*,1	4.1	0
1	Interfacial Aspects to Produce Particulate Reinforced Metal Matrix Composites71-99		4