

# Boris B Straumal

## List of Publications by Year in descending order

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275  
papers

10,822  
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13827

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43802

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#	ARTICLE	IF	CITATIONS
1	The Phase Transformations Induced by High-Pressure Torsion in Tiâ€“Nb-Based Alloys. <i>Microscopy and Microanalysis</i> , 2022, 28, 946-952.	0.2	3
2	Modification of Biocorrosion and Cellular Response of Magnesium Alloy WE43 by Multiaxial Deformation. <i>Metals</i> , 2022, 12, 105.	1.0	1
3	Structure Refinement and Fragmentation of Precipitates under Severe Plastic Deformation: A Review. <i>Materials</i> , 2022, 15, 601.	1.3	20
4	Influence of faceting-roughening on triple-junction migration in zinc. <i>International Journal of Materials Research</i> , 2022, 96, 1147-1151.	0.1	1
5	Severe Plastic Deformation and Phase Transformations in High Entropy Alloys: A Review. <i>Crystals</i> , 2022, 12, 54.	1.0	13
6	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022, 10, 163-256.	4.1	215
7	High Entropy Alloys Coatings Deposited by Laser Cladding: A Review of Grain Boundary Wetting Phenomena. <i>Coatings</i> , 2022, 12, 343.	1.2	20
8	Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. <i>Annual Review of Materials Research</i> , 2022, 52, 357-382.	4.3	34
9	Grain boundary faceting close to the $\frac{1}{3}$ coincidence misorientation in copper. <i>International Journal of Materials Research</i> , 2022, 95, 939-944.	0.1	0
10	Formation and Thermal Stability of the $\delta$ -Phase in Tiâ€“Nb and Tiâ€“Mo Alloys Subjected to HPT. <i>Materials</i> , 2022, 15, 4136.	1.3	2
11	Gradient bandgap narrowing in severely deformed ZnO nanoparticles. <i>Materials Research Letters</i> , 2021, 9, 58-64.	4.1	13
12	Wetting of grain boundary triple junctions by intermetallic delta-phase in the Cuâ€“In alloys. <i>Journal of Materials Science</i> , 2021, 56, 7840-7848.	1.7	22
13	Omega Phase Formation in Tiâ€“3wt.%Nb Alloy Induced by High-Pressure Torsion. <i>Materials</i> , 2021, 14, 2262.	1.3	6
14	Discontinuous Dissolution Reaction in a Fe-13.5 at. % Zn Alloy. <i>Materials</i> , 2021, 14, 1939.	1.3	2
15	The Enrichment of (Cu, Sn) Solid Solution Driven by High-Pressure Torsion. <i>Crystals</i> , 2021, 11, 766.	1.0	5
16	Phase Transformations in the Al <sub>1-x</sub> Mg Alloys Driven by High-Pressure Torsion. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100210.	0.7	0
17	The formation of B2-precipitate and its effect on grain growth behavior in aluminum-containing CoCrNi medium-entropy alloy. <i>Materials Letters</i> , 2021, 303, 130481.	1.3	10
18	Formation of two amorphous phases in the Ni60Nb18Y22 alloy after high pressure torsion. <i>Metallic Materials</i> , 2021, 49, 17-22.	0.2	5

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19	The Grain Boundary Wetting Phenomena in the Ti-Containing High-Entropy Alloys: A Review. <i>Metals</i> , 2021, 11, 1881.	1.0	54
20	Grain Boundary Wetting Phenomena in High Entropy Alloys Containing Nitrides, Carbides, Borides, Silicides, and Hydrogen: A Review. <i>Crystals</i> , 2021, 11, 1540.	1.0	13
21	Grain Boundary Wetting by a Second Solid Phase in the High Entropy Alloys: A Review. <i>Materials</i> , 2021, 14, 7506.	1.3	23
22	Computer analysis of the cemented carbidesâ€™ microstructure. <i>Letters on Materials</i> , 2021, 11, 447-451.	0.2	2
23	Cytotoxicity of biodegradable magnesium alloy WE43 to tumor cells in vitro: Bioresorbable implants with antitumor activity?. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 167-173.	1.6	24
24	Investigation on the precipitate formation and behavior in nitrogen-containing equiatomic CoCrFeMnNi high-entropy alloy. <i>Materials Letters</i> , 2020, 258, 126806.	1.3	16
25	Faceting of Twin Grain Boundaries in High-Purity Copper Subjected to High Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900589.	1.6	4
26	Effect of internal stress on short-circuit diffusion in thin films and nanolaminates: Application to Cu/W nano-multilayers. <i>Applied Surface Science</i> , 2020, 508, 145254.	3.1	24
27	Stabilization of ultrafine-grained microstructure in high-purity copper by gas-filled pores produced by severe plastic deformation. <i>Scripta Materialia</i> , 2020, 178, 29-33.	2.6	11
28	Influence of Î²-Stabilizers on the Î±-Tiâ†“Î³-Ti Transformation in Ti-Based Alloys. <i>Processes</i> , 2020, 8, 1135.	1.3	7
29	Phase Transformations in Ndâ€“Feâ€“B-Based Alloys under High Pressure Torsion at Different Temperatures. <i>JETP Letters</i> , 2020, 112, 37-44.	0.4	6
30	Wetting-Phase Transitions by the Second Solid Phase for Linear Defects (Grain Boundary Triple) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.4	33
31	Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. <i>Metals</i> , 2020, 10, 1127.	1.0	44
32	The Effect of Equal-Channel Angular Pressing on Microstructure, Mechanical Properties, and Biodegradation Behavior of Magnesium Alloyed with Silver and Gadolinium. <i>Crystals</i> , 2020, 10, 918.	1.0	10
33	High pressure torsion of Cuâ€“Ag and Cuâ€“Sn alloys: Limits for solubility and dissolution. <i>Acta Materialia</i> , 2020, 195, 184-198.	3.8	24
34	Formation of the Î³ Phase in the Titaniumâ€“Iron System under Shear Deformation. <i>JETP Letters</i> , 2020, 111, 568-574.	0.4	65
35	Formation and Thermal Stability of Î³-Ti(Fe) in Î±-Phase-Based Ti(Fe) Alloys. <i>Metals</i> , 2020, 10, 402.	1.0	12
36	Thermal stability and microhardness of metastable Î³-phase in the Ti-3.3At.% Co alloy subjected to high pressure torsion. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155132.	2.8	7

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37	Grain boundaries in Nd-Fe-B-based alloys. Letters on Materials, 2020, 10, 566-571.	0.2	1
38	Competition for impurity atoms between defects and solid solution during high pressure torsion. Scripta Materialia, 2019, 173, 46-50.	2.6	32
39	Phase Transformations Induced by Severe Plastic Deformation. Materials Transactions, 2019, 60, 1489-1499.	0.4	63
40	Microstructure Evolution and Some Properties of Hard Magnetic FeCr30Co8 Alloy Subjected to Torsion Combined with Tension. Materials, 2019, 12, 3019.	1.3	3
41	Structural and Mechanical Properties of Ti-Co Alloys Treated by High Pressure Torsion. Materials, 2019, 12, 426.	1.3	22
42	Dissolution of Ag Precipitates in the Cu-8wt.%Ag Alloy Deformed by High Pressure Torsion. Materials, 2019, 12, 447.	1.3	15
43	Phase Transformations in Copper-Tin Solid Solutions at High-Pressure Torsion. JETP Letters, 2019, 110, 624-628.	0.4	9
44	The Effect of Equal-Channel Angular Pressing on the Microstructure, the Mechanical and Corrosion Properties and the Anti-Tumor Activity of Magnesium Alloyed with Silver. Materials, 2019, 12, 3832.	1.3	20
45	Thermal Stability of Athermal $\beta$ -Ti(Fe) Produced upon Quenching of $\beta^2$ -Ti(Fe). Advanced Engineering Materials, 2019, 21, 1800158.	1.6	14
46	Effect of composition, annealing temperature, and high pressure torsion on structure and hardness of Ti-V and Ti-V-Al alloys. Journal of Applied Physics, 2019, 125, .	1.1	88
47	Grain Boundary Complexions and Phase Transformations in Al- and Cu-Based Alloys. Metals, 2019, 9, 10.	1.0	12
48	DIFFUSIVE AND DISPLACIVE PHASE TRANSFORMATIONS UNDER HIGH PRESSURE TORSION. Acta Metallurgica Slovaca, 2019, 25, 230-252.	0.3	4
49	Phase transitions in copper-silver alloys under high pressure torsion. International Journal of Materials Research, 2019, 110, 608-613.	0.1	8
50	Instabilities of interfaces between dissimilar metals induced by high pressure torsion. Materials Letters, 2018, 222, 172-175.	1.3	85
51	Diffusion in Materials Science and Technology. , 2018, , 261-275.		0
52	Transformation Pathway upon Heating of Ti-Fe Alloys Deformed by High-Pressure Torsion. Advanced Engineering Materials, 2018, 20, 1700933.	1.6	23
53	Grain Boundary Wetting by a Second Solid Phase in Ti-Fe Alloys. Journal of Materials Engineering and Performance, 2018, 27, 4989-4992.	1.2	87
54	The $\beta$ and $\beta^2$ phase transformations in Ti-Fe alloys under high-pressure torsion. Acta Materialia, 2018, 144, 337-351.	3.8	118

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55	Diffusive and displacive phase transitions in Ti-Fe and Ti-Co alloys under high pressure torsion. Journal of Alloys and Compounds, 2018, 735, 2281-2286.	2.8	35
56	Coarsening of (Ti) Microstructure in the Ti-Al-V Alloy at Constant Temperature. Advanced Engineering Materials, 2018, 20, 1800510.	1.6	23
57	Plastic flow and microstructural instabilities during high-pressure torsion of Cu/ZnO composites. Materials Characterization, 2018, 145, 389-401.	1.9	23
58	The Transformation in Titanium-Cobalt Alloys under High-Pressure Torsion. Metals, 2018, 8, 1.	1.0	281
59	Bulk Nanocrystalline Ferrite Stabilized through Grain Boundary Carbon Segregation. Advanced Engineering Materials, 2018, 20, 1800443.	1.6	37
60	Generation and healing of porosity in high purity copper by high-pressure torsion. Materials Characterization, 2018, 145, 1-9.	1.9	14
61	Contact angles of WC/WC grain boundaries with binder in cemented carbides with various carbon content. Materials Letters, 2017, 196, 1-3.	1.3	20
62	The effect of bismuth on microstructure evolution of ultrafine grained copper. Materials Letters, 2017, 199, 156-159.	1.3	9
63	Statistics of GB misorientations in 2D polycrystalline copper foil. Materials Letters, 2017, 196, 377-380.	1.3	5
64	Phase transitions in Cu-based alloys under high pressure torsion. Journal of Alloys and Compounds, 2017, 707, 20-26.	2.8	61
65	Pseudopartial wetting of W/W grain boundaries by the nickel-rich layers. Materials Letters, 2017, 192, 101-103.	1.3	22
66	High-pressure torsion driven phase transformations in Cu-Al-Ni shape memory alloys. Acta Materialia, 2017, 125, 274-285.	3.8	41
67	Competition between precipitation and dissolution in Cu-Ag alloys under high pressure torsion. Acta Materialia, 2017, 122, 60-71.	3.8	100
68	Grain boundary wetting transition in Al-Mg alloys. Materials Letters, 2017, 186, 82-85.	1.3	41
69	Grain Boundary Wetting in the Nd-Fe-B-Based Alloy. Defect and Diffusion Forum, 2017, 380, 173-180.	0.4	5
70	Ferromagnetic behaviour of ZnO: the role of grain boundaries. Beilstein Journal of Nanotechnology, 2016, 7, 1936-1947.	1.5	99
71	Grain boundary complexions and pseudopartial wetting. Current Opinion in Solid State and Materials Science, 2016, 20, 247-256.	5.6	99
72	Grain boundary wetting phase transitions in peritectic copper-cobalt alloys. Physics of the Solid State, 2016, 58, 742-746.	0.2	22

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73	Observation of Pseudopartial Grain Boundary Wetting in the NdFeB-Based Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3303-3309.	1.2	35
74	Grain refinement of intermetallic compounds in the Cu-Sn system under high pressure torsion. <i>Materials Letters</i> , 2016, 179, 12-15.	1.3	20
75	Microstructure evolution and mechanical behavior of ultrafine Ti 6Al 4V during low-temperature superplastic deformation. <i>Acta Materialia</i> , 2016, 121, 152-163.	3.8	148
76	Formation regularities of grain-boundary interlayers of the $\beta$ -Ti phase in binary titanium alloys. <i>Russian Journal of Non-Ferrous Metals</i> , 2016, 57, 229-235.	0.2	26
77	Effect of high pressure torsion on microstructure of Cu-Sn alloys with different content of Hume Rothery phase. <i>Materials Characterization</i> , 2016, 118, 411-416.	1.9	12
78	Growth of ( $\beta$ -Ti) grain-boundary layers in Ti-Co alloys. <i>Russian Journal of Non-Ferrous Metals</i> , 2016, 57, 703-709.	0.2	53
79	Preface to the special section on high-temperature capillarity. <i>Journal of Materials Science</i> , 2016, 51, 1669-1670.	1.7	0
80	How to Tune the Alumina Aerogels Structure by the Variation of a Supercritical Solvent. Evolution of the Structure During Heat Treatment. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3319-3325.	1.5	22
81	Phase transformations in a Cu Cr alloy induced by high pressure torsion. <i>Materials Characterization</i> , 2016, 114, 151-156.	1.9	18
82	Review: grain boundary faceting-roughening phenomena. <i>Journal of Materials Science</i> , 2016, 51, 382-404.	1.7	97
83	Phase Transformations in Ti-Fe Alloys Induced by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2015, 17, 1835-1841.	1.6	95
84	Ultrafine Grained Structures Resulting from SPD-Induced Phase Transformation in Al-Zn Alloys. <i>Advanced Engineering Materials</i> , 2015, 17, 1821-1827.	1.6	86
85	Interfacial dominated ferromagnetism in nanograined ZnO: a $\mu$ SR and DFT study. <i>Scientific Reports</i> , 2015, 5, 8871.	1.6	97
86	Severe Plastic Deformation on Powder Metallurgy Cu-Al-Ni Shape Memory Alloys. <i>Materials Today: Proceedings</i> , 2015, 2, S747-S750.	0.9	15
87	Wear-resistance and hardness: Are they directly related for nanostructured hard materials?. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 49, 203-211.	1.7	62
88	Pseudopartial wetting of WC/WC grain boundaries in cemented carbides. <i>Materials Letters</i> , 2015, 147, 105-108.	1.3	51
89	Amorphization of Nd-Fe-B alloy under the action of high-pressure torsion. <i>Materials Letters</i> , 2015, 145, 63-66.	1.3	35
90	Direct observation of strain-induced non-equilibrium grain boundaries. <i>Materials Letters</i> , 2015, 159, 432-435.	1.3	9

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91	Influence of the grain boundary character on the temperature of transition to complete wetting in the Cu–In system. <i>Journal of Materials Science</i> , 2015, 50, 4762-4771.	1.7	32
92	Phase transitions induced by severe plastic deformation: steady-state and equifinality. <i>International Journal of Materials Research</i> , 2015, 106, 657-664.	0.1	76
93	Transformations of Cu(in) supersaturated solid solutions under high-pressure torsion. <i>Materials Letters</i> , 2015, 138, 255-258.	1.3	15
94	Pseudopartial wetting of grain boundaries in severely deformed Al-Zn alloys. <i>Russian Journal of Non-Ferrous Metals</i> , 2015, 56, 44-51.	0.2	42
95	Amorphization of crystalline phases in the Nd–Fe–B alloy driven by the high-pressure torsion. <i>Materials Letters</i> , 2015, 161, 735-739.	1.3	29
96	Microstructure evolution of Cu – 22 % In alloy subjected to the high pressure torsion. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 63, 012093.	0.3	6
97	Transformation of Hume-Rothery phases under the action of high pressure torsion. <i>JETP Letters</i> , 2014, 100, 376-379.	0.4	16
98	Grain Boundary Phenomena in an Ultrafine-Grained Al–Zn Alloy with Improved Mechanical Behavior for Micro-Devices. <i>Advanced Engineering Materials</i> , 2014, 16, 1000-1009.	1.6	92
99	Reversible –Wetting– of grain boundaries by the second solid phase in the Cu-In system. <i>JETP Letters</i> , 2014, 100, 535-539.	0.4	43
100	Phase transitions during high pressure torsion of Cu Co alloys. <i>Materials Letters</i> , 2014, 118, 111-114.	1.3	71
101	Phase transitions in metallic alloys driven by the high pressure torsion. <i>Archives of Civil and Mechanical Engineering</i> , 2014, 14, 242-249.	1.9	112
102	Continuous and Discontinuous $\hat{1}\pm$ Ti Layers Between Grains of $\hat{1}^2$ (Ti,Co) Phase. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1580-1584.	1.2	6
103	Grain boundary films in Al–Zn alloys after high pressure torsion. <i>Scripta Materialia</i> , 2014, 70, 59-62.	2.6	110
104	Increase of Fe solubility in ZnO induced by the grain boundary adsorption. <i>Journal of Materials Science</i> , 2014, 49, 4490-4498.	1.7	77
105	Strengthening zones in the Co matrix of WC–Co cemented carbides. <i>Scripta Materialia</i> , 2014, 83, 17-20.	2.6	98
106	Grain boundary wetting and premelting in the Cu–Co alloys. <i>Journal of Alloys and Compounds</i> , 2014, 615, S183-S187.	2.8	17
107	Phase transformations in Al–Mg–Zn alloys during high pressure torsion and subsequent heating. <i>Journal of Materials Science</i> , 2013, 48, 4758-4765.	1.7	13
108	Ferromagnetism of zinc oxide nanograined films. <i>JETP Letters</i> , 2013, 97, 367-377.	0.4	109

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109	Interrelation of depletion and segregation in decomposition of nanoparticles. Philosophical Magazine, 2013, 93, 1677-1689.	0.7	6
110	SPD-induced changes of structure and magnetic properties in the Cu–Co alloys. Materials Letters, 2013, 98, 217-221.	1.3	15
111	Contribution of tilt boundaries to the total energy spectrum of grain boundaries in polycrystals. JETP Letters, 2013, 96, 582-587.	0.4	7
112	Grain boundaries as the controlling factor for the ferromagnetic behaviour of Co-doped ZnO. Philosophical Magazine, 2013, 93, 1371-1383.	0.7	100
113	Ferromagnetic behaviour of Fe-doped ZnO nanograined films. Beilstein Journal of Nanotechnology, 2013, 4, 361-369.	1.5	92
114	Effective Temperature of High Pressure Torsion in Zr-Nb Alloys. High Temperature Materials and Processes, 2012, 31, .	0.6	20
115	Accelerated Diffusion and Phase Transformations in Co–Cu Alloys Driven by the Severe Plastic Deformation. Materials Transactions, 2012, 53, 63-71.	0.4	117
116	Grain boundary wetting in the NdFeB-based hard magnetic alloys. Journal of Materials Science, 2012, 47, 8352-8359.	1.7	35
117	Apparently complete grain boundary wetting in Cu–In alloys. Journal of Materials Science, 2012, 47, 8336-8343.	1.7	43
118	Heat effect of grain boundary wetting in Al–Mg alloys. Journal of Materials Science, 2012, 47, 8367-8371.	1.7	18
119	Effect of the wetting of grain boundaries on the formation of a solid solution in the Al-Zn system. JETP Letters, 2012, 96, 380-384.	0.4	20
120	Ferromagnetism of nanostructured zinc oxide films. Physics of Metals and Metallography, 2012, 113, 1244-1256.	0.3	82
121	Wetting of grain boundaries in hard-magnetic Nd-Fe-B alloys. Russian Journal of Non-Ferrous Metals, 2012, 53, 450-456.	0.2	16
122	Complete and Incomplete Wetting of Ferrite Grain Boundaries by Austenite in the Low-Alloyed Ferritic Steel. Journal of Materials Engineering and Performance, 2012, 21, 667-670.	1.2	102
123	Grain Boundary Wetting by a Second Solid Phase in the Zr-Nb Alloys. Journal of Materials Engineering and Performance, 2012, 21, 721-724.	1.2	82
124	Amorphous interlayers between crystalline grains in ferromagnetic ZnO films. Materials Letters, 2012, 71, 21-24.	1.3	89
125	Phase transformations in the severely plastically deformed Zr–Nb alloys. Materials Letters, 2012, 81, 225-228.	1.3	61
126	Gradual softening of Al–Zn alloys during high-pressure torsion. Materials Letters, 2012, 84, 63-65.	1.3	90



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127	Strain rate sensitivity studies in an ultrafine-grained Al <sup>30</sup> wt.% Zn alloy using micro- and nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 543, 117-120.	2.6	92
128	Deformation-driven formation of equilibrium phases in the Cu-Ni alloys. <i>Journal of Materials Science</i> , 2012, 47, 360-367.	1.7	63
129	Faceting-roughening of twin grain boundaries. <i>Journal of Materials Science</i> , 2012, 47, 1641-1646.	1.7	11
130	Amorphous grain boundary layers in the ferromagnetic nanograined ZnO films. <i>Thin Solid Films</i> , 2011, 520, 1192-1194.	0.8	86
131	Wetting transition of grain boundaries in the Sn-rich part of the Sn-Bi phase diagram. <i>Journal of Materials Science</i> , 2011, 46, 1557-1562.	1.7	18
132	First measurement of the heat effect of the grain boundary wetting phase transition. <i>Journal of Materials Science</i> , 2011, 46, 4243-4247.	1.7	15
133	Transmission electron microscopy investigation of boundaries between amorphous $\alpha$ -grains in Ni <sub>50</sub> Nb <sub>20</sub> Y <sub>30</sub> alloy. <i>Journal of Materials Science</i> , 2011, 46, 4336-4342.	1.7	73
134	Inversed solid-phase grain boundary wetting in the Al-Zn system. <i>Journal of Materials Science</i> , 2011, 46, 4349-4353.	1.7	77
135	Influence of texture on the ferromagnetic properties of nanograined ZnO films. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1581-1586.	0.7	81
136	Structure and Properties of Nanograined Fe-C Alloys after Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2011, 13, 463-469.	1.6	74
137	Wetting Transition of Grain Boundaries in Tin-Rich Indium-Based Alloys and Its Influence on Electrical Properties. <i>Materials Transactions</i> , 2010, 51, 1677-1682.	0.4	11
138	Ferromagnetic properties of the Mn-doped nanograined ZnO films. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	108
139	Wetting of grain boundaries in Al by the solid Al <sub>3</sub> Mg <sub>2</sub> phase. <i>Journal of Materials Science</i> , 2010, 45, 2057-2061.	1.7	87
140	Contact angles by the solid-phase grain boundary wetting (coverage) in the Co-Cu system. <i>Journal of Materials Science</i> , 2010, 45, 4271-4275.	1.7	76
141	Unusual super-ductility at room temperature in an ultrafine-grained aluminum alloy. <i>Journal of Materials Science</i> , 2010, 45, 4718-4724.	1.7	125
142	Grain boundary ridges and triple lines. <i>Scripta Materialia</i> , 2010, 62, 924-927.	2.6	11
143	Grain boundary layers in nanocrystalline ferromagnetic zinc oxide. <i>JETP Letters</i> , 2010, 92, 396-400.	0.4	87
144	Study on the Solidus Line in Sn-Rich Region of Sn-In Phase Diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 2009, 30, 254-257.	0.5	12

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145	Fe-C nanograined alloys obtained by high-pressure torsion: Structure and magnetic properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 503, 185-189.	2.6	74
146	Increase of Mn solubility with decreasing grain size in ZnO. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1963-1970.	2.8	142
147	Grain boundary faceting-roughening in Zn. <i>Crystallography Reports</i> , 2009, 54, 1070-1078.	0.1	3
148	Magnetization study of nanograined pure and Mn-doped ZnO films: Formation of a ferromagnetic grain-boundary foam. <i>Physical Review B</i> , 2009, 79, .	1.1	343
149	Effect of severe plastic deformation on the coercivity of Co-Cu alloys. <i>Philosophical Magazine Letters</i> , 2009, 89, 649-654.	0.5	18
150	Second-order faceting-roughening of the tilt grain boundary in zinc. <i>International Journal of Materials Research</i> , 2009, 100, 525-529.	0.1	6
151	Structure, phase composition, and microhardness of carbon steels after high-pressure torsion. <i>Journal of Materials Science</i> , 2008, 43, 3800-3805.	1.7	12
152	Motion of the faceted $57^\circ$ $[11\bar{0}]$ tilt grain boundary in zinc. <i>Journal of Materials Science</i> , 2008, 43, 3860-3866.	1.7	9
153	Coercivity and domain structure of nanograined Fe-C alloys after high-pressure torsion. <i>Journal of Materials Science</i> , 2008, 43, 3775-3781.	1.7	8
154	Wetting transition of grain-boundary triple junctions. <i>Acta Materialia</i> , 2008, 56, 925-933.	3.8	85
155	Effect of faceting on grain boundary motion in Zn. <i>Acta Materialia</i> , 2008, 56, 2728-2734.	3.8	71
156	Thermal evolution and grain boundary phase transformations in severely deformed nanograined Al-Zn alloys. <i>Acta Materialia</i> , 2008, 56, 6123-6131.	3.8	89
157	Increase of Co solubility with decreasing grain size in ZnO. <i>Acta Materialia</i> , 2008, 56, 6246-6256.	3.8	125
158	Wetting and premelting of triple junctions and grain boundaries in the Al-Zn alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 126-131.	2.6	17
159	First observation of a wetting phase transition in low-angle grain boundaries. <i>JETP Letters</i> , 2008, 88, 537-542.	0.4	36
160	Hardmetals with nanograin reinforced binder: Binder fine structure and hardness. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008, 26, 583-588.	1.7	30
161	Evaluation of the Coverage Pattern on the Fracture Surface of Bi-Embrittled Cu Grain Boundaries by Means of Auger Electron Spectroscopy. <i>Defect and Diffusion Forum</i> , 2008, 273-276, 643-648.	0.4	0
162	The Influence of Quenching Baths on Grain Boundary Wetting Transition in Sn-25 at% In alloy. <i>Defect and Diffusion Forum</i> , 2008, 273-276, 649-654.	0.4	0

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163	Non-destructive compositional analysis of historic organ reed pipes. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 104250.	0.7	8
164	Continuous and discontinuous grain-boundary wetting in $\text{Zn}$ . <i>Physical Review B</i> , 2008, 78, .	1.1	80
165	Reversible transformation of a grain-boundary facet into a rough-to-rough ridge in zinc. <i>Philosophical Magazine Letters</i> , 2008, 88, 27-36.	0.5	8
166	Distribution of impurities and minor components in nanostructured conducting oxides. <i>International Journal of Nanomanufacturing</i> , 2008, 2, 253.	0.3	16
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