

# Boris B Straumal

## List of Publications by Year in descending order

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275  
papers

10,822  
citations

13865

67  
h-index

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91  
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283  
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283  
docs citations

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times ranked

5357  
citing authors

| #  | 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.                              | 0.4 | 3         |
| 2  | Modification of Biocorrosion and Cellular Response of Magnesium Alloy WE43 by Multiaxial Deformation. <i>Metals</i> , 2022, 12, 105.                                      | 2.3 | 1         |
| 3  | Structure Refinement and Fragmentation of Precipitates under Severe Plastic Deformation: A Review. <i>Materials</i> , 2022, 15, 601.                                      | 2.9 | 20        |
| 4  | Influence of faceting-roughening on triple-junction migration in zinc. <i>International Journal of Materials Research</i> , 2022, 96, 1147-1151.                          | 0.3 | 1         |
| 5  | Severe Plastic Deformation and Phase Transformations in High Entropy Alloys: A Review. <i>Crystals</i> , 2022, 12, 54.  | 2.2 | 13        |
| 6  | Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022, 10, 163-256.                | 8.7 | 215       |
| 7  | High Entropy Alloys Coatings Deposited by Laser Cladding: A Review of Grain Boundary Wetting Phenomena. <i>Coatings</i> , 2022, 12, 343.                                  | 2.6 | 20        |
| 8  | Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. <i>Annual Review of Materials Research</i> , 2022, 52, 357-382.            | 9.3 | 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.          | 0.3 | 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.                                 | 2.9 | 2         |
| 11 | Gradient bandgap narrowing in severely deformed ZnO nanoparticles. <i>Materials Research Letters</i> , 2021, 9, 58-64.  | 8.7 | 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.                 | 3.7 | 22        |
| 13 | Omega Phase Formation in Tiâ€“3wt.%Nb Alloy Induced by High-Pressure Torsion. <i>Materials</i> , 2021, 14, 2262.  | 2.9 | 6         |
| 14 | Discontinuous Dissolution Reaction in a Fe-13.5 at. % Zn Alloy. <i>Materials</i> , 2021, 14, 1939.  | 2.9 | 2         |
| 15 | The Enrichment of (Cu, Sn) Solid Solution Driven by High-Pressure Torsion. <i>Crystals</i> , 2021, 11, 766.   | 2.2 | 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.          | 1.5 | 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. | 2.6 | 10        |
| 18 | Formation of two amorphous phases in the Ni60Nb18Y22 alloy after high pressure torsion. <i>Metallic Materials</i> , 2021, 49, 17-22.                                      | 0.3 | 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.   | 2.3 | 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.   | 2.2 | 13        |
| 21 | Grain Boundary Wetting by a Second Solid Phase in the High Entropy Alloys: A Review. <i>Materials</i> , 2021, 14, 7506.  | 2.9 | 23        |
| 22 | Computer analysis of the cemented carbidesâ€™ microstructure. <i>Letters on Materials</i> , 2021, 11, 447-451.   | 0.7 | 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. | 3.4 | 24        |
| 24 | Investigation on the precipitate formation and behavior in nitrogen-containing equiatomic CoCrFeMnNi high-entropy alloy. <i>Materials Letters</i> , 2020, 258, 126806.   | 2.6 | 16        |
| 25 | Faceting of Twin Grain Boundaries in High-Purity Copper Subjected to High Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900589.   | 3.5 | 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.  | 6.1 | 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.  | 5.2 | 11        |
| 28 | Influence of Î²-Stabilizers on the Î±-Tiâ†“Î³-Ti Transformation in Ti-Based Alloys. <i>Processes</i> , 2020, 8, 1135.  | 2.8 | 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.   | 1.4 | 6         |
| 30 | Wetting-Phase Transitions by the Second Solid Phase for Linear Defects (Grain Boundary Triple) Tj ETQq0 0 Q rBT /Overlock 10 T   | 1.4 | 33        |
| 31 | Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. <i>Metals</i> , 2020, 10, 1127.  | 2.3 | 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.                             | 2.2 | 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.   | 7.9 | 24        |
| 34 | Formation of the Î³ Phase in the Titaniumâ€“Iron System under Shear Deformation. <i>JETP Letters</i> , 2020, 111, 568-574.   | 1.4 | 65        |
| 35 | Formation and Thermal Stability of Î³-Ti(Fe) in Î±-Phase-Based Ti(Fe) Alloys. <i>Metals</i> , 2020, 10, 402.   | 2.3 | 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.  | 5.5 | 7         |

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|----|--|-----|-----------|
| 37 | Grain boundaries in Nd-Fe-B-based alloys. Letters on Materials, 2020, 10, 566-571.   | 0.7 | 1         |
| 38 | Competition for impurity atoms between defects and solid solution during high pressure torsion. Scripta Materialia, 2019, 173, 46-50.  | 5.2 | 32        |
| 39 | Phase Transformations Induced by Severe Plastic Deformation. Materials Transactions, 2019, 60, 1489-1499.  | 1.2 | 63        |
| 40 | Microstructure Evolution and Some Properties of Hard Magnetic FeCr30Co8 Alloy Subjected to Torsion Combined with Tension. Materials, 2019, 12, 3019.   | 2.9 | 3         |
| 41 | Structural and Mechanical Properties of Ti-Co Alloys Treated by High Pressure Torsion. Materials, 2019, 12, 426.   | 2.9 | 22        |
| 42 | Dissolution of Ag Precipitates in the Cu-8wt.%Ag Alloy Deformed by High Pressure Torsion. Materials, 2019, 12, 447.  | 2.9 | 15        |
| 43 | Phase Transformations in Copper-Tin Solid Solutions at High-Pressure Torsion. JETP Letters, 2019, 110, 624-628.  | 1.4 | 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. | 2.9 | 20        |
| 45 | Thermal Stability of Athermal $\beta$ -Ti(Fe) Produced upon Quenching of $\beta^2$ -Ti(Fe). Advanced Engineering Materials, 2019, 21, 1800158.   | 3.5 | 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, .                               | 2.5 | 88        |
| 47 | Grain Boundary Complexions and Phase Transformations in Al- and Cu-Based Alloys. Metals, 2019, 9, 10.  | 2.3 | 12        |
| 48 | DIFFUSIVE AND DISPLACIVE PHASE TRANSFORMATIONS UNDER HIGH PRESSURE TORSION. Acta Metallurgica Slovaca, 2019, 25, 230-252.  | 0.7 | 4         |
| 49 | Phase transitions in copper-silver alloys under high pressure torsion. International Journal of Materials Research, 2019, 110, 608-613.  | 0.3 | 8         |
| 50 | Instabilities of interfaces between dissimilar metals induced by high pressure torsion. Materials Letters, 2018, 222, 172-175.   | 2.6 | 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.  | 3.5 | 23        |
| 53 | Grain Boundary Wetting by a Second Solid Phase in Ti-Fe Alloys. Journal of Materials Engineering and Performance, 2018, 27, 4989-4992.   | 2.5 | 87        |
| 54 | The $\beta$ and $\beta^2$ phase transformations in Ti-Fe alloys under high-pressure torsion. Acta Materialia, 2018, 144, 337-351.  | 7.9 | 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. | 5.5  | 35        |
| 56 | Coarsening of (Ti) Microstructure in the Ti-Al-V Alloy at Constant Temperature. Advanced Engineering Materials, 2018, 20, 1800510.                       | 3.5  | 23        |
| 57 | Plastic flow and microstructural instabilities during high-pressure torsion of Cu/ZnO composites. Materials Characterization, 2018, 145, 389-401.        | 4.4  | 23        |
| 58 | The Transformation in Titanium-Cobalt Alloys under High-Pressure Torsion. Metals, 2018, 8, 1.  | 2.3  | 281       |
| 59 | Bulk Nanocrystalline Ferrite Stabilized through Grain Boundary Carbon Segregation. Advanced Engineering Materials, 2018, 20, 1800443.                    | 3.5  | 37        |
| 60 | Generation and healing of porosity in high purity copper by high-pressure torsion. Materials Characterization, 2018, 145, 1-9.                           | 4.4  | 14        |
| 61 | Contact angles of WC/WC grain boundaries with binder in cemented carbides with various carbon content. Materials Letters, 2017, 196, 1-3.                | 2.6  | 20        |
| 62 | The effect of bismuth on microstructure evolution of ultrafine grained copper. Materials Letters, 2017, 199, 156-159.                                    | 2.6  | 9         |
| 63 | Statistics of GB misorientations in 2D polycrystalline copper foil. Materials Letters, 2017, 196, 377-380.   | 2.6  | 5         |
| 64 | Phase transitions in Cu-based alloys under high pressure torsion. Journal of Alloys and Compounds, 2017, 707, 20-26.                                     | 5.5  | 61        |
| 65 | Pseudopartial wetting of W/W grain boundaries by the nickel-rich layers. Materials Letters, 2017, 192, 101-103.  | 2.6  | 22        |
| 66 | High-pressure torsion driven phase transformations in Cu-Al-Ni shape memory alloys. Acta Materialia, 2017, 125, 274-285.                                 | 7.9  | 41        |
| 67 | Competition between precipitation and dissolution in Cu-Ag alloys under high pressure torsion. Acta Materialia, 2017, 122, 60-71.                        | 7.9  | 100       |
| 68 | Grain boundary wetting transition in Al-Mg alloys. Materials Letters, 2017, 186, 82-85.  | 2.6  | 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.                                   | 2.8  | 99        |
| 71 | Grain boundary complexions and pseudopartial wetting. Current Opinion in Solid State and Materials Science, 2016, 20, 247-256.                           | 11.5 | 99        |
| 72 | Grain boundary wetting phase transitions in peritectic copper-cobalt alloys. Physics of the Solid State, 2016, 58, 742-746.                              | 0.6  | 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.   | 2.5 | 35        |
| 74 | Grain refinement of intermetallic compounds in the Cu-Sn system under high pressure torsion. <i>Materials Letters</i> , 2016, 179, 12-15.  | 2.6 | 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.                                    | 7.9 | 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.                               | 0.6 | 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.                                  | 4.4 | 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.  | 0.6 | 53        |
| 79 | Preface to the special section on high-temperature capillarity. <i>Journal of Materials Science</i> , 2016, 51, 1669-1670.   | 3.7 | 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. | 3.1 | 22        |
| 81 | Phase transformations in a Cu Cr alloy induced by high pressure torsion. <i>Materials Characterization</i> , 2016, 114, 151-156.   | 4.4 | 18        |
| 82 | Review: grain boundary faceting-roughening phenomena. <i>Journal of Materials Science</i> , 2016, 51, 382-404.   | 3.7 | 97        |
| 83 | Phase Transformations in Ti-Fe Alloys Induced by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2015, 17, 1835-1841.   | 3.5 | 95        |
| 84 | Ultrafine Grained Structures Resulting from SPD-Induced Phase Transformation in Al-Zn Alloys. <i>Advanced Engineering Materials</i> , 2015, 17, 1821-1827.   | 3.5 | 86        |
| 85 | Interfacial dominated ferromagnetism in nanograined ZnO: a $\mu$ SR and DFT study. <i>Scientific Reports</i> , 2015, 5, 8871.  | 3.3 | 97        |
| 86 | Severe Plastic Deformation on Powder Metallurgy Cu-Al-Ni Shape Memory Alloys. <i>Materials Today: Proceedings</i> , 2015, 2, S747-S750.  | 1.8 | 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.                    | 3.8 | 62        |
| 88 | Pseudopartial wetting of WC/WC grain boundaries in cemented carbides. <i>Materials Letters</i> , 2015, 147, 105-108.   | 2.6 | 51        |
| 89 | Amorphization of Nd-Fe-B alloy under the action of high-pressure torsion. <i>Materials Letters</i> , 2015, 145, 63-66.   | 2.6 | 35        |
| 90 | Direct observation of strain-induced non-equilibrium grain boundaries. <i>Materials Letters</i> , 2015, 159, 432-435.  | 2.6 | 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.  | 3.7 | 32        |
| 92  | Phase transitions induced by severe plastic deformation: steady-state and equifinality. <i>International Journal of Materials Research</i> , 2015, 106, 657-664.                | 0.3 | 76        |
| 93  | Transformations of Cu(in) supersaturated solid solutions under high-pressure torsion. <i>Materials Letters</i> , 2015, 138, 255-258.  | 2.6 | 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.                                    | 0.6 | 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.                                    | 2.6 | 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.      | 0.6 | 6         |
| 97  | Transformation of Hume-Rothery phases under the action of high pressure torsion. <i>JETP Letters</i> , 2014, 100, 376-379.  | 1.4 | 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.  | 3.5 | 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.   | 1.4 | 43        |
| 100 | Phase transitions during high pressure torsion of Cu Co alloys. <i>Materials Letters</i> , 2014, 118, 111-114.  | 2.6 | 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.                              | 3.8 | 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. | 2.5 | 6         |
| 103 | Grain boundary films in Al–Zn alloys after high pressure torsion. <i>Scripta Materialia</i> , 2014, 70, 59-62.  | 5.2 | 110       |
| 104 | Increase of Fe solubility in ZnO induced by the grain boundary adsorption. <i>Journal of Materials Science</i> , 2014, 49, 4490-4498.   | 3.7 | 77        |
| 105 | Strengthening zones in the Co matrix of WC–Co cemented carbides. <i>Scripta Materialia</i> , 2014, 83, 17-20.   | 5.2 | 98        |
| 106 | Grain boundary wetting and premelting in the Cu–Co alloys. <i>Journal of Alloys and Compounds</i> , 2014, 615, S183-S187.   | 5.5 | 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.                        | 3.7 | 13        |
| 108 | Ferromagnetism of zinc oxide nanograined films. <i>JETP Letters</i> , 2013, 97, 367-377.  | 1.4 | 109       |

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|-----|--|-----|-----------|
| 109 | Interrelation of depletion and segregation in decomposition of nanoparticles. Philosophical Magazine, 2013, 93, 1677-1689.   | 1.6 | 6         |
| 110 | SPD-induced changes of structure and magnetic properties in the Cu–Co alloys. Materials Letters, 2013, 98, 217-221.  | 2.6 | 15        |
| 111 | Contribution of tilt boundaries to the total energy spectrum of grain boundaries in polycrystals. JETP Letters, 2013, 96, 582-587.   | 1.4 | 7         |
| 112 | Grain boundaries as the controlling factor for the ferromagnetic behaviour of Co-doped ZnO. Philosophical Magazine, 2013, 93, 1371-1383.   | 1.6 | 100       |
| 113 | Ferromagnetic behaviour of Fe-doped ZnO nanograined films. Beilstein Journal of Nanotechnology, 2013, 4, 361-369.  | 2.8 | 92        |
| 114 | Effective Temperature of High Pressure Torsion in Zr-Nb Alloys. High Temperature Materials and Processes, 2012, 31, .  | 1.4 | 20        |
| 115 | Accelerated Diffusion and Phase Transformations in Co–Cu Alloys Driven by the Severe Plastic Deformation. Materials Transactions, 2012, 53, 63-71.                               | 1.2 | 117       |
| 116 | Grain boundary wetting in the NdFeB-based hard magnetic alloys. Journal of Materials Science, 2012, 47, 8352-8359.   | 3.7 | 35        |
| 117 | Apparently complete grain boundary wetting in Cu–In alloys. Journal of Materials Science, 2012, 47, 8336-8343.   | 3.7 | 43        |
| 118 | Heat effect of grain boundary wetting in Al–Mg alloys. Journal of Materials Science, 2012, 47, 8367-8371.  | 3.7 | 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.   | 1.4 | 20        |
| 120 | Ferromagnetism of nanostructured zinc oxide films. Physics of Metals and Metallography, 2012, 113, 1244-1256.  | 1.0 | 82        |
| 121 | Wetting of grain boundaries in hard-magnetic Nd-Fe-B alloys. Russian Journal of Non-Ferrous Metals, 2012, 53, 450-456.   | 0.6 | 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. | 2.5 | 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.   | 2.5 | 82        |
| 124 | Amorphous interlayers between crystalline grains in ferromagnetic ZnO films. Materials Letters, 2012, 71, 21-24.   | 2.6 | 89        |
| 125 | Phase transformations in the severely plastically deformed Zr–Nb alloys. Materials Letters, 2012, 81, 225-228.   | 2.6 | 61        |
| 126 | Gradual softening of Al–Zn alloys during high-pressure torsion. Materials Letters, 2012, 84, 63-65.  | 2.6 | 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. | 5.6 | 92        |
| 128 | Deformation-driven formation of equilibrium phases in the Cu-Ni alloys. <i>Journal of Materials Science</i> , 2012, 47, 360-367.   | 3.7 | 63        |
| 129 | Faceting-roughening of twin grain boundaries. <i>Journal of Materials Science</i> , 2012, 47, 1641-1646.   | 3.7 | 11        |
| 130 | Amorphous grain boundary layers in the ferromagnetic nanograined ZnO films. <i>Thin Solid Films</i> , 2011, 520, 1192-1194.  | 1.8 | 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.  | 3.7 | 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.  | 3.7 | 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.                                       | 3.7 | 73        |
| 134 | Inversed solid-phase grain boundary wetting in the Al-Zn system. <i>Journal of Materials Science</i> , 2011, 46, 4349-4353.  | 3.7 | 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.  | 1.5 | 81        |
| 136 | Structure and Properties of Nanograined Fe-C Alloys after Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2011, 13, 463-469.   | 3.5 | 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.  | 1.2 | 11        |
| 138 | Ferromagnetic properties of the Mn-doped nanograined ZnO films. <i>Journal of Applied Physics</i> , 2010, 108, .   | 2.5 | 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.   | 3.7 | 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.  | 3.7 | 76        |
| 141 | Unusual super-ductility at room temperature in an ultrafine-grained aluminum alloy. <i>Journal of Materials Science</i> , 2010, 45, 4718-4724.   | 3.7 | 125       |
| 142 | Grain boundary ridges and triple lines. <i>Scripta Materialia</i> , 2010, 62, 924-927.   | 5.2 | 11        |
| 143 | Grain boundary layers in nanocrystalline ferromagnetic zinc oxide. <i>JETP Letters</i> , 2010, 92, 396-400.  | 1.4 | 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.  | 1.4 | 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. | 5.6 | 74        |
| 146 | Increase of Mn solubility with decreasing grain size in ZnO. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1963-1970.  | 5.7 | 142       |
| 147 | Grain boundary faceting-roughening in Zn. <i>Crystallography Reports</i> , 2009, 54, 1070-1078.   | 0.6 | 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, .  | 3.2 | 343       |
| 149 | Effect of severe plastic deformation on the coercivity of Co-Cu alloys. <i>Philosophical Magazine Letters</i> , 2009, 89, 649-654.  | 1.2 | 18        |
| 150 | Second-order faceting-roughening of the tilt grain boundary in zinc. <i>International Journal of Materials Research</i> , 2009, 100, 525-529.   | 0.3 | 6         |
| 151 | Structure, phase composition, and microhardness of carbon steels after high-pressure torsion. <i>Journal of Materials Science</i> , 2008, 43, 3800-3805.  | 3.7 | 12        |
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