# Boris B Straumal

## List of Publications by Year in descending order



| | | | |
|---|---|---|---|
| 275 papers | 10,822 citations | 13827 67 h-index | 43802 91 g-index |
| 283 all docs | 283 docs citations | 283 times ranked | 5357 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetization study of nanograined pure and Mn-doped ZnO films: Formation of a ferromagnetic grain-boundary foam. Physical Review B, 2009, 79, . | 1.1 | 343 |
| 2 | The Î± â†' Ï‰ Transformation in Titanium-Cobalt Alloys under High-Pressure Torsion. Metals, 2018, 8, 1. | 1.0 | 281 |
| 3 | Formation of nanograined structure and decomposition of supersaturated solid solution during high pressure torsion of Alâ€“Zn and Alâ€“Mg alloys. Acta Materialia, 2004, 52, 4469-4478. | 3.8 | 247 |
| 4 | Silicon carbide and diamond for high temperature device applications. Journal of Materials Science: Materials in Electronics, 2006, 17, 1-25. | 1.1 | 227 |
| 5 | Nanomaterials by severe plastic deformation: review of historical developments and recent advances. Materials Research Letters, 2022, 10, 163-256. | 4.1 | 215 |
| 6 | Regions of existence of special and non-special grain boundaries. Acta Metallurgica, 1985, 33, 1735-1749. | 2.1 | 163 |
| 7 | Softening of nanostructured Alâ€“Zn and Alâ€“Mg alloys after severe plastic deformation. Acta Materialia, 2006, 54, 3933-3939. | 3.8 | 161 |
| 8 | Microstructure evolution and mechanical behavior of ultrafine Ti 6Al 4V during low-temperature superplastic deformation. Acta Materialia, 2016, 121, 152-163. | 3.8 | 148 |
| 9 | Increase of Mn solubility with decreasing grain size in ZnO. Journal of the European Ceramic Society, 2009, 29, 1963-1970. | 2.8 | 142 |
| 10 | Increase of Co solubility with decreasing grain size in ZnO. Acta Materialia, 2008, 56, 6246-6256. | 3.8 | 125 |
| 11 | Unusual super-ductility at room temperature in an ultrafine-grained aluminum alloy. Journal of Materials Science, 2010, 45, 4718-4724. | 1.7 | 125 |
| 12 | The Î±â†'Ï‰ and Î²â†'Ï‰ phase transformations in Tiâ€“Fe alloys under high-pressure torsion. Acta Materialia, 2018, 144, 337-351. | 3.8 | 118 |
| 13 | Accelerated Diffusion and Phase Transformations in Co–Cu Alloys Driven by the Severe Plastic Deformation. Materials Transactions, 2012, 53, 63-71. | 0.4 | 117 |
| 14 | Phase transitions in metallic alloys driven by the high pressure torsion. Archives of Civil and Mechanical Engineering, 2014, 14, 242-249. | 1.9 | 112 |
| 15 | Grain boundary films in Alâ€“Zn alloys after high pressure torsion. Scripta Materialia, 2014, 70, 59-62. | 2.6 | 110 |
| 16 | Ferromagnetism of zinc oxide nanograined films. JETP Letters, 2013, 97, 367-377. | 0.4 | 109 |
| 17 | Ferromagnetic properties of the Mn-doped nanograined ZnO films. Journal of Applied Physics, 2010, 108, . | 1.1 | 108 |
| 18 | Thermodynamic aspects of the grain boundary segregation in Cu(Bi) alloys. Acta Materialia, 1999, 47, 4041-4046. | 3.8 | 105 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Grain-boundary melting phase transition in theCuâ^'Bisystem. Physical Review B, 2005, 71, . | 1.1 | 104 |
| 20 | Grain boundary wetting by a solid phase; microstructural development in a Znâ€“5 wt% Al alloy. Acta Materialia, 2004, 52, 4537-4545. | 3.8 | 103 |
| 21 | 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 |
| 22 | Grain boundaries as the controlling factor for the ferromagnetic behaviour of Co-doped ZnO. Philosophical Magazine, 2013, 93, 1371-1383. | 0.7 | 100 |
| 23 | Competition between precipitation and dissolution in Cuâ€“Ag alloys under high pressure torsion. Acta Materialia, 2017, 122, 60-71. | 3.8 | 100 |
| 24 | Ferromagnetic behaviour of ZnO: the role of grain boundaries. Beilstein Journal of Nanotechnology, 2016, 7, 1936-1947. | 1.5 | 99 |
| 25 | Grain boundary complexions and pseudopartial wetting. Current Opinion in Solid State and Materials Science, 2016, 20, 247-256. | 5.6 | 99 |
| 26 | Strengthening zones in the Co matrix of WCâ€“Co cemented carbides. Scripta Materialia, 2014, 83, 17-20. | 2.6 | 98 |
| 27 | Interfacial dominated ferromagnetism in nanograined ZnO: a Î¼SR and DFT study. Scientific Reports, 2015, 5, 8871. | 1.6 | 97 |
| 28 | Review: grain boundary facetingâ€“roughening phenomena. Journal of Materials Science, 2016, 51, 382-404. | 1.7 | 97 |
| 29 | Phase Transformations in Tiâ€“Fe Alloys Induced by Highâ€Pressure Torsion. Advanced Engineering Materials, 2015, 17, 1835-1841. | 1.6 | 95 |
| 30 | Strain rate sensitivity studies in an ultrafine-grained Alâ€“30wt.% Zn alloy using micro- and nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 117-120. | 2.6 | 92 |
| 31 | Ferromagnetic behaviour of Fe-doped ZnO nanograined films. Beilstein Journal of Nanotechnology, 2013, 4, 361-369. | 1.5 | 92 |
| 32 | Grain Boundary Phenomena in an Ultrafineâ€Grained Alâ€“Zn Alloy with Improved Mechanical Behavior for Microâ€Devices. Advanced Engineering Materials, 2014, 16, 1000-1009. | 1.6 | 92 |
| 33 | Gradual softening of Alâ€“Zn alloys during high-pressure torsion. Materials Letters, 2012, 84, 63-65. | 1.3 | 90 |
| 34 | Thermal evolution and grain boundary phase transformations in severely deformed nanograined Alâ€“Zn alloys. Acta Materialia, 2008, 56, 6123-6131. | 3.8 | 89 |
| 35 | Amorphous interlayers between crystalline grains in ferromagnetic ZnO films. Materials Letters, 2012, 71, 21-24. | 1.3 | 89 |
| 36 | Effect of composition, annealing temperature, and high pressure torsion on structure and hardness of Tiâ€“V and Tiâ€“Vâ€“Al alloys. Journal of Applied Physics, 2019, 125, . | 1.1 | 88 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Grain Boundary Phase Transitions and their Influence on Properties of Polycrystals. Journal of Materials Science, 2004, 12, 147-155. | 1.2 | 87 |
| 38 | Wetting of grain boundaries in Al by the solid Al3Mg2 phase. Journal of Materials Science, 2010, 45, 2057-2061. | 1.7 | 87 |
| 39 | Grain boundary layers in nanocrystalline ferromagnetic zinc oxide. JETP Letters, 2010, 92, 396-400. | 0.4 | 87 |
| 40 | 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 |
| 41 | Amorphous grain boundary layers in the ferromagnetic nanograined ZnO films. Thin Solid Films, 2011, 520, 1192-1194. | 0.8 | 86 |
| 42 | Ultrafine Grained Structures Resulting from SPDâ€Induced Phase Transformation in Alâ€“Zn Alloys. Advanced Engineering Materials, 2015, 17, 1821-1827. | 1.6 | 86 |
| 43 | Wetting transition of grain-boundary triple junctions. Acta Materialia, 2008, 56, 925-933. | 3.8 | 85 |
| 44 | Instabilities of interfaces between dissimilar metals induced by high pressure torsion. Materials Letters, 2018, 222, 172-175. | 1.3 | 85 |
| 45 | Ferromagnetism of nanostructured zinc oxide films. Physics of Metals and Metallography, 2012, 113, 1244-1256. | 0.3 | 82 |
| 46 | 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 |
| 47 | Influence of texture on the ferromagnetic properties of nanograined ZnO films. Physica Status Solidi (B): Basic Research, 2011, 248, 1581-1586. | 0.7 | 81 |
| 48 | Temperature influence on the faceting of 3 and 9 grain boundaries in Cu. Acta Materialia, 2006, 54, 167-172. | 3.8 | 80 |
| 49 | Continuous and discontinuous grain-boundary wetting in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Zn</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> Physical Review B, 2008, 78, . | 1.1 | 80 |
| 50 | Grain boundary phase transitions and phase diagrams. Solid State Sciences, 2001, 3, 1113-1115. | 0.8 | 77 |
| 51 | Inversed solid-phase grain boundary wetting in the Alâ€“Zn system. Journal of Materials Science, 2011, 46, 4349-4353. | 1.7 | 77 |
| 52 | Increase of Fe solubility in ZnO induced by the grain boundary adsorption. Journal of Materials Science, 2014, 49, 4490-4498. | 1.7 | 77 |
| 53 | Contact angles by the solid-phase grain boundary wetting (coverage) in the Coâ€“Cu system. Journal of Materials Science, 2010, 45, 4271-4275. | 1.7 | 76 |
| 54 | Phase transitions induced by severe plastic deformation: steady-state and equifinality. International Journal of Materials Research, 2015, 106, 657-664. | 0.1 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Faceting of Î£3 and Î£9 Grain Boundaries in Copper. Journal of Materials Science, 2001, 9, 287-292. | 1.2 | 75 |
| 56 | Penetration of tin and zinc along tilt grain boundaries 43Â° [100] in Fe-5 at.% Si alloy: Premelting phase transition?. Acta Metallurgica Et Materialia, 1991, 39, 627-639. | 1.9 | 74 |
| 57 | The wetting transition in high and low energy grain boundaries in the Cu(In) system. Acta Metallurgica Et Materialia, 1992, 40, 939-945. | 1.9 | 74 |
| 58 | Feâ€“C nanograined alloys obtained by high-pressure torsion: Structure and magnetic properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 185-189. | 2.6 | 74 |
| 59 | Structure and Properties of Nanograined Feâ€“C Alloys after Severe Plastic Deformation. Advanced Engineering Materials, 2011, 13, 463-469. | 1.6 | 74 |
| 60 | Hypereutectic Al-Si based alloys with a thixotropic microstructure produced by ultrasonic treatment. Materials & Design, 1997, 18, 323-326. | 5.1 | 73 |
| 61 | Transmission electron microscopy investigation of boundaries between amorphous â€œgrainsâ€•in Ni50Nb20Y30 alloy. Journal of Materials Science, 2011, 46, 4336-4342. | 1.7 | 73 |
| 62 | The Solidus Line of the Cu-Bi Phase Diagram. Journal of Phase Equilibria and Diffusion, 1997, 18, 128-135. | 0.3 | 72 |
| 63 | Grain Boundary Grooving as an Indicator of Grain Boundary Phase Transformations. Journal of Materials Science, 2001, 9, 43-53. | 1.2 | 72 |
| 64 | Transformation of â˜17 special tilt boundaries to general boundaries in tin. Acta Metallurgica, 1988, 36, 1573-1583. | 2.1 | 71 |
| 65 | Pressure influence on the grain boundary wetting phase transition in Feî—¸Si alloys. Acta Materialia, 1997, 45, 1931-1940. | 3.8 | 71 |
| 66 | Effect of faceting on grain boundary motion in Zn. Acta Materialia, 2008, 56, 2728-2734. | 3.8 | 71 |
| 67 | Phase transitions during high pressure torsion of Cu Co alloys. Materials Letters, 2014, 118, 111-114. | 1.3 | 71 |
| 68 | Temperature dependence of the grain boundary segregation of Bi in Cu polycrystals. Scripta Materialia, 1997, 37, 729-735. | 2.6 | 70 |
| 69 | The effect of pressure on migration of ã€˜001ã€‰ tilt grain boundaries in tin bicrystals. Scripta Metallurgica, 1984, 18, 207-211. | 1.2 | 68 |
| 70 | GRAIN BOUNDARIES: PHASE TRANSITIONS AND CRITICAL PHENOMENA. International Journal of Modern Physics B, 1991, 05, 2989-3028. | 1.0 | 68 |
| 71 | Acceleration of grain boundary motion in Al by small additions of Ga. Philosophical Magazine Letters, 1995, 72, 361-368. | 0.5 | 68 |
| 72 | Wetting and premelting phase transitions in 38Â° [100] tilt grain boundary in (Fe-12 at.% Si)-Zn alloy in the vicinity of the A2-B2 bulk ordering in Fe-12 at.% Si alloy. Acta Metallurgica Et Materialia, 1991, 39, 3091-3098. | 1.9 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Grain Boundary Segregation in the Cu-Bi System. Defect and Diffusion Forum, 1998, 156, 135-146. | 0.4 | 66 |
| 74 | Formation of the Ï‰ Phase in the Titaniumâ€"Iron System under Shear Deformation. JETP Letters, 2020, 111, 568-574. | 0.4 | 65 |
| 75 | Premelting transition on 38Â°â€˜100â€‰ tilt grain boundaries in (Fe-10 at.% Si)-Zn alloys. Acta Metallurgica Et Materialia, 1992, 40, 795-801. | 1.9 | 64 |
| 76 | Deformation-driven formation of equilibrium phases in the Cuâ€“Ni alloys. Journal of Materials Science, 2012, 47, 360-367. | 1.7 | 63 |
| 77 | Phase Transformations Induced by Severe Plastic Deformation. Materials Transactions, 2019, 60, 1489-1499. | 0.4 | 63 |
| 78 | Wear-resistance and hardness: Are they directly related for nanostructured hard materials?. International Journal of Refractory Metals and Hard Materials, 2015, 49, 203-211. | 1.7 | 62 |
| 79 | Phase transformations in the severely plastically deformed Zrâ€“Nb alloys. Materials Letters, 2012, 81, 225-228. | 1.3 | 61 |
| 80 | Phase transitions in Cu-based alloys under high pressure torsion. Journal of Alloys and Compounds, 2017, 707, 20-26. | 2.8 | 61 |
| 81 | The Grain Boundary Wetting Phenomena in the Ti-Containing High-Entropy Alloys: A Review. Metals, 2021, 11, 1881. | 1.0 | 54 |
| 82 | Growth of (Î±Ti) grain-boundary layers in Tiâ€“Co alloys. Russian Journal of Non-Ferrous Metals, 2016, 57, 703-709. | 0.2 | 53 |
| 83 | Pseudopartial wetting of WC/WC grain boundaries in cemented carbides. Materials Letters, 2015, 147, 105-108. | 1.3 | 51 |
| 84 | Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. Metals, 2020, 10, 1127. | 1.0 | 44 |
| 85 | Apparently complete grain boundary wetting in Cuâ€“In alloys. Journal of Materials Science, 2012, 47, 8336-8343. | 1.7 | 43 |
| 86 | Reversible â€œWettingâ€•of grain boundaries by the second solid phase in the Cu-In system. JETP Letters, 2014, 100, 535-539. | 0.4 | 43 |
| 87 | Pseudopartial wetting of grain boundaries in severely deformed Al-Zn alloys. Russian Journal of Non-Ferrous Metals, 2015, 56, 44-51. | 0.2 | 42 |
| 88 | High-pressure torsion driven phase transformations in Cuâ€“Alâ€“Ni shape memory alloys. Acta Materialia, 2017, 125, 274-285. | 3.8 | 41 |
| 89 | Grain boundary wetting transition in Alâ€“Mg alloys. Materials Letters, 2017, 186, 82-85. | 1.3 | 41 |
| 90 | The effect of crystallographic parameters of interphase boundaries on their surface tension and parameters of the boundary diffusion. Acta Metallurgica, 1984, 32, 1355-1364. | 2.1 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Tie Lines of the Grain Boundary Wetting Phase Transition in the Zn-Rich Part of the Zn-Sn Phase Diagram. Materials Science Forum, 1999, 294-296, 411-414. | 0.3 | 40 |
| 92 | The influence of pressure on indium diffusion along single tin-germanium interphase boundaries. Scripta Metallurgica, 1983, 17, 275-279. | 1.2 | 37 |
| 93 | Bulk Nanocrystalline Ferrite Stabilized through Grain Boundary Carbon Segregation. Advanced Engineering Materials, 2018, 20, 1800443. | 1.6 | 37 |
| 94 | First observation of a wetting phase transition in low-angle grain boundaries. JETP Letters, 2008, 88, 537-542. | 0.4 | 36 |
| 95 | Preparation of Feî—¸Si single crystals and bicrystals for diffusion experiments by the electron-beam floating zone technique. Journal of Crystal Growth, 1995, 151, 180-186. | 0.7 | 35 |
| 96 | Grain boundary wetting in the NdFeB-based hard magnetic alloys. Journal of Materials Science, 2012, 47, 8352-8359. | 1.7 | 35 |
| 97 | Amorphization of Ndâ€“Feâ€“B alloy under the action of high-pressure torsion. Materials Letters, 2015, 145, 63-66. | 1.3 | 35 |
| 98 | Observation of Pseudopartial Grain Boundary Wetting in the NdFeB-Based Alloy. Journal of Materials Engineering and Performance, 2016, 25, 3303-3309. | 1.2 | 35 |
| 99 | Diffusive and displacive phase transitions in Tiâ€“Fe and Tiâ€“Co alloys under high pressure torsion. Journal of Alloys and Compounds, 2018, 735, 2281-2286. | 2.8 | 35 |
| 100 | Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. Annual Review of Materials Research, 2022, 52, 357-382. | 4.3 | 34 |
| 101 | â€œWettingâ€•Phase Transitions by the Second Solid Phase for Linear Defects (Grain Boundary Triple) Tj ETQq1 1 0.784314 rgBT /Ov | 0.4 | 33 |
| 102 | Influence of the grain boundary character on the temperature of transition to complete wetting in the Cuâ€“In system. Journal of Materials Science, 2015, 50, 4762-4771. | 1.7 | 32 |
| 103 | Competition for impurity atoms between defects and solid solution during high pressure torsion. Scripta Materialia, 2019, 173, 46-50. | 2.6 | 32 |
| 104 | The influence of an ordering transition on the interdiffusion in Fe-Si alloys. Acta Metallurgica Et Materialia, 1995, 43, 3075-3083. | 1.9 | 31 |
| 105 | Grain boundary phase observed in Alâ€“5 at.% Zn alloy by using HREM. Philosophical Magazine Letters, 2007, 87, 423-430. | 0.5 | 30 |
| 106 | Hardmetals with nanograin reinforced binder: Binder fine structure and hardness. International Journal of Refractory Metals and Hard Materials, 2008, 26, 583-588. | 1.7 | 30 |
| 107 | Lines of Grain Boundary Phase Transitions in Bulk Phase Diagrams. Materials Science Forum, 1996, 207-209, 59-68. | 0.3 | 29 |
| 108 | Amorphization of crystalline phases in the Ndâ€“Feâ€“B alloy driven by the high-pressure torsion. Materials Letters, 2015, 161, 735-739. | 1.3 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Faceting of Î£3 and Î£9 grain boundaries in Cuâ€“Bi alloys. Acta Materialia, 2005, 53, 247-254. | 3.8 | 28 |
| 110 | Formation regularities of grain-boundary interlayers of the Î±-Ti phase in binary titanium alloys. Russian Journal of Non-Ferrous Metals, 2016, 57, 229-235. | 0.2 | 26 |
| 111 | Pseudopartial Grain Boundary Wetting: Key to the Thin Intergranular Layers. Defect and Diffusion Forum, 0, 333, 175-192. | 0.4 | 25 |
| 112 | Cytotoxicity of biodegradable magnesium alloy WE43 to tumor cells in vitro: Bioresorbable implants with antitumor activity?. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 167-173. | 1.6 | 24 |
| 113 | Effect of internal stress on short-circuit diffusion in thin films and nanolaminates: Application to Cu/W nano-multilayers. Applied Surface Science, 2020, 508, 145254. | 3.1 | 24 |
| 114 | High pressure torsion of Cuâ€“Ag and Cuâ€“Sn alloys: Limits for solubility and dissolution. Acta Materialia, 2020, 195, 184-198. | 3.8 | 24 |
| 115 | Corrosion behaviour of the protective and decorative TiN coatings on large area steel strips. Surface and Coatings Technology, 2000, 125, 229-232. | 2.2 | 23 |
| 116 | Transformation Pathway upon Heating of Tiâ€“Fe Alloys Deformed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2018, 20, 1700933. | 1.6 | 23 |
| 117 | Coarsening of (Î±Ti)â€‰+â€‰(Î²Ti) Microstructure in the Tiâ€“Alâ€“V Alloy at Constant Temperature. Advanced Engineering Materials, 2018, 20, 1800510. | 1.6 | 23 |
| 118 | Plastic flow and microstructural instabilities during high-pressure torsion of Cu/ZnO composites. Materials Characterization, 2018, 145, 389-401. | 1.9 | 23 |
| 119 | Faceting and migration of twin grain boundaries in zinc. International Journal of Materials Research, 2005, 96, 161-166. | 0.8 | 23 |
| 120 | Grain Boundary Wetting by a Second Solid Phase in the High Entropy Alloys: A Review. Materials, 2021, 14, 7506. | 1.3 | 23 |
| 121 | Grain Boundary Phase Transitions in the Alâ€“Mg System and Their Influence on High-Strain Rate Superplasticity. Defect and Diffusion Forum, 2003, 216-217, 307-312. | 0.4 | 22 |
| 122 | Structural changes in aluminum alloys upon severe plastic deformation. Physics of the Solid State, 2007, 49, 868-873. | 0.2 | 22 |
| 123 | Grain boundary wetting phase transitions in peritectic copperâ€”cobalt alloys. Physics of the Solid State, 2016, 58, 742-746. | 0.2 | 22 |
| 124 | How to Tune the Alumina Aerogels Structure by the Variation of a Supercritical Solvent. Evolution of the Structure During Heat Treatment. Journal of Physical Chemistry C, 2016, 120, 3319-3325. | 1.5 | 22 |
| 125 | Pseudopartial wetting of W/W grain boundaries by the nickel-rich layers. Materials Letters, 2017, 192, 101-103. | 1.3 | 22 |
| 126 | Structural and Mechanical Properties of Tiâ€“Co Alloys Treated by High Pressure Torsion. Materials, 2019, 12, 426. | 1.3 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Wetting of grain boundary triple junctions by intermetallic delta-phase in the Cuâ€“In alloys. Journal of Materials Science, 2021, 56, 7840-7848. | 1.7 | 22 |
| 128 | Influence of faceting-roughening on triple-junction migration in zinc. International Journal of Materials Research, 2005, 96, 1147-1151. | 0.8 | 21 |
| 129 | Enhanced Ductility in Ultrafine-Grained Al Alloys Produced by SPD Techniques. Materials Science Forum, 0, 633-634, 321-332. | 0.3 | 20 |
| 130 | Effective Temperature of High Pressure Torsion in Zr-Nb Alloys. High Temperature Materials and Processes, 2012, 31, . | 0.6 | 20 |
| 131 | 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 |
| 132 | Grain refinement of intermetallic compounds in the Cuâ€“Sn system under high pressure torsion. Materials Letters, 2016, 179, 12-15. | 1.3 | 20 |
| 133 | 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 |
| 134 | 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 |
| 135 | Structure Refinement and Fragmentation of Precipitates under Severe Plastic Deformation: A Review. Materials, 2022, 15, 601. | 1.3 | 20 |
| 136 | High Entropy Alloys Coatings Deposited by Laser Cladding: A Review of Grain Boundary Wetting Phenomena. Coatings, 2022, 12, 343. | 1.2 | 20 |
| 137 | Indium diffusion along interphase twist boundaries Snî—¸Ge. Scripta Metallurgica, 1981, 15, 1197-1200. | 1.2 | 18 |
| 138 | Influence of Grain Boundary Phase Transitions on the Properties of Cu-Bi Polycrystals. Defect and Diffusion Forum, 2001, 188-190, 185-0. | 0.4 | 18 |
| 139 | Effect of severe plastic deformation on the coercivity of Coâ€“Cu alloys. Philosophical Magazine Letters, 2009, 89, 649-654. | 0.5 | 18 |
| 140 | Wetting transition of grain boundaries in the Sn-rich part of the Snâ€“Bi phase diagram. Journal of Materials Science, 2011, 46, 1557-1562. | 1.7 | 18 |
| 141 | Heat effect of grain boundary wetting in Alâ€“Mg alloys. Journal of Materials Science, 2012, 47, 8367-8371. | 1.7 | 18 |
| 142 | Phase transformations in a Cu Cr alloy induced by high pressure torsion. Materials Characterization, 2016, 114, 151-156. | 1.9 | 18 |
| 143 | Phase transitions at grain boundaries in the presence of impurities. Acta Metallurgica, 1989, 37, 1995-1998. | 2.1 | 17 |
| 144 | Liquid film migration in a Mo(Ni) bicrystal. Philosophical Magazine Letters, 1996, 73, 187-194. | 0.5 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Faceting and Roughening of the Asymmetric Twin Grain Boundaries in Zinc. Journal of Materials Science, 2001, 9, 275-279. | 1.2 | 17 |
| 146 | Pokrovsky-Talapov Critical Behavior and Rough-to-Rough Ridges of theÎ£3Coincidence Tilt Boundary in Mo. Physical Review Letters, 2004, 92, 196101. | 2.9 | 17 |
| 147 | Formation of Nanostructure during High-Pressure Torsion of Al-Zn, Al-Mg and Al-Zn-Mg Alloys. Defect and Diffusion Forum, 2005, 237-240, 739-744. | 0.4 | 17 |
| 148 | Wetting and premelting of triple junctions and grain boundaries in the Alâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 495, 126-131. | 2.6 | 17 |
| 149 | The Effect of Grain Boundary Sliding and Strain Rate Sensitivity on the Ductility of Ultrafine-Grained Materials. Materials Science Forum, 0, 667-669, 677-682. | 0.3 | 17 |
| 150 | Grain boundary wetting and premelting in the Cuâ€“Co alloys. Journal of Alloys and Compounds, 2014, 615, S183-S187. | 2.8 | 17 |
| 151 | Effect of the subsidiary misorientation components on the â€œspecial grain boundary-general boundaryâ€• transformation in the vicinity of the coincidence misorientation of Î£17 in tin. Acta Metallurgica, 1989, 37, 2855-2860. | 2.1 | 16 |
| 152 | Corrosion resistance of the vacuum arc deposited Ti, TiN and TiO2 coatings on large area glass substrates. Surface and Coatings Technology, 2000, 125, 223-228. | 2.2 | 16 |
| 153 | Grain Boundary Phase Transitions in the Cu-Bi System. Defect and Diffusion Forum, 2001, 194-199, 1343-1348. | 0.4 | 16 |
| 154 | Distribution of impurities and minor components in nanostructured conducting oxides. International Journal of Nanomanufacturing, 2008, 2, 253. | 0.3 | 16 |
| 155 | Wetting of grain boundaries in hard-magnetic Nd-Fe-B alloys. Russian Journal of Non-Ferrous Metals, 2012, 53, 450-456. | 0.2 | 16 |
| 156 | Transformation of Hume-Rothery phases under the action of high pressure torsion. JETP Letters, 2014, 100, 376-379. | 0.4 | 16 |
| 157 | Investigation on the precipitate formation and behavior in nitrogen-containing equiatomic CoCrFeMnNi high-entropy alloy. Materials Letters, 2020, 258, 126806. | 1.3 | 16 |
| 158 | Grain Boundary Wetting Phase Transitions on the Al-Sn and Al-Sn-Pb Systems. Materials Science Forum, 1996, 207-209, 437-440. | 0.3 | 15 |
| 159 | Vacuum arc deposition of Mo films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 3252-3255. | 0.9 | 15 |
| 160 | Stable and metastable phases in the vacuum arc deposited Co thin films. Thin Solid Films, 1998, 319, 124-127. | 0.8 | 15 |
| 161 | Masked deposition of decorative coatings on large area glass and plastic sheets. Thin Solid Films, 1999, 351, 204-208. | 0.8 | 15 |
| 162 | First measurement of the heat effect of the grain boundary wetting phase transition. Journal of Materials Science, 2011, 46, 4243-4247. | 1.7 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | SPD-induced changes of structure and magnetic properties in the Cuâ€“Co alloys. Materials Letters, 2013, 98, 217-221. | 1.3 | 15 |
| 164 | Severe Plastic Deformation on Powder Metallurgy Cuâ€“Alâ€“Ni Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S747-S750. | 0.9 | 15 |
| 165 | Transformations of Cu(in) supersaturated solid solutions under high-pressure torsion. Materials Letters, 2015, 138, 255-258. | 1.3 | 15 |
| 166 | Dissolution of Ag Precipitates in the Cuâ€“8wt.%Ag Alloy Deformed by High Pressure Torsion. Materials, 2019, 12, 447. | 1.3 | 15 |
| 167 | Generation and healing of porosity in high purity copper by high-pressure torsion. Materials Characterization, 2018, 145, 1-9. | 1.9 | 14 |
| 168 | Thermal Stability of Athermal Ï‰â€Ti(Fe) Produced upon Quenching of Î²â€Ti(Fe). Advanced Engineering Materials, 2019, 21, 1800158. | 1.6 | 14 |
| 169 | Solute drag and wetting of a grain boundary. Philosophical Magazine Letters, 1997, 76, 133-138. | 0.5 | 13 |
| 170 | Phase transformations in Alâ€“Mgâ€“Zn alloys during high pressure torsion and subsequent heating. Journal of Materials Science, 2013, 48, 4758-4765. | 1.7 | 13 |
| 171 | Gradient bandgap narrowing in severely deformed ZnO nanoparticles. Materials Research Letters, 2021, 9, 58-64. | 4.1 | 13 |
| 172 | The effect of bismuth segregation on the faceting of Î£3 and Î£9 coincidence boundaries in copper bicrystals. International Journal of Materials Research, 2007, 98, 451-456. | 0.1 | 13 |
| 173 | Grain Boundary Wetting Phenomena in High Entropy Alloys Containing Nitrides, Carbides, Borides, Silicides, and Hydrogen: A Review. Crystals, 2021, 11, 1540. | 1.0 | 13 |
| 174 | Severe Plastic Deformation and Phase Transformations in High Entropy Alloys: A Review. Crystals, 2022, 12, 54. | 1.0 | 13 |
| 175 | Grain boundary faceting close to the Î£3 coincidence misorientation in copper. International Journal of Materials Research, 2004, 95, 939-944. | 0.8 | 12 |
| 176 | Structure, phase composition, and microhardness of carbon steels after high-pressure torsion. Journal of Materials Science, 2008, 43, 3800-3805. | 1.7 | 12 |
| 177 | Study on the Solidus Line in Sn-Rich Region of Sn-In Phase Diagram. Journal of Phase Equilibria and Diffusion, 2009, 30, 254-257. | 0.5 | 12 |
| 178 | Effect of high pressure torsion on microstructure of Cu-Sn alloys with different content of Hume Rothery phase. Materials Characterization, 2016, 118, 411-416. | 1.9 | 12 |
| 179 | Grain Boundary Complexions and Phase Transformations in Al- and Cu-Based Alloys. Metals, 2019, 9, 10. | 1.0 | 12 |
| 180 | Formation and Thermal Stability of Ï‰-Ti(Fe) in Î±-Phase-Based Ti(Fe) Alloys. Metals, 2020, 10, 402. | 1.0 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Radiotracer Diffusion of Ni and Ag in Ag and Ni Grain Boundaries and Oriented Ag/Ni Interphase Boundaries. Materials Science Forum, 1999, 294-296, 541-544. | 0.3 | 11 |
| 182 | Wetting Transition of Grain Boundaries in Tin–Rich Indium-Based Alloys and Its Influence on Electrical Properties. Materials Transactions, 2010, 51, 1677-1682. | 0.4 | 11 |
| 183 | Grain boundary ridges and triple lines. Scripta Materialia, 2010, 62, 924-927. | 2.6 | 11 |
| 184 | Facetingâ€“roughening of twin grain boundaries. Journal of Materials Science, 2012, 47, 1641-1646. | 1.7 | 11 |
| 185 | Diffusion and Phase Transitions Accelerated by Severe Plastic Deformation. , 0, 5, 95-108. | | 11 |
| 186 | Stabilization of ultrafine-grained microstructure in high-purity copper by gas-filled pores produced by severe plastic deformation. Scripta Materialia, 2020, 178, 29-33. | 2.6 | 11 |
| 187 | The influence of misorientation deviation on the faceting of Î£3 grain boundaries in aluminium. International Journal of Materials Research, 2005, 96, 216-219. | 0.8 | 11 |
| 188 | Diffusion of indium along [001] Snî—¸Ge interphase boundaries: Prewetting phase transition and critical phenomena. Journal of the Less Common Metals, 1990, 159, 43-52. | 0.9 | 10 |
| 189 | Grain Boundary Wetting Phase Transition in the Mo-Ni System. Defect and Diffusion Forum, 1997, 143-147, 1517-1522. | 0.4 | 10 |
| 190 | The Effect of Equal-Channel Angular Pressing on Microstructure, Mechanical Properties, and Biodegradation Behavior of Magnesium Alloyed with Silver and Gadolinium. Crystals, 2020, 10, 918. | 1.0 | 10 |
| 191 | The formation of B2-precipitate and its effect on grain growth behavior in aluminum-containing CoCrNi medium-entropy alloy. Materials Letters, 2021, 303, 130481. | 1.3 | 10 |
| 192 | Diffusion of indium along [001] twist boundaries in tin: Concentrational Î²-Î³â€² phase transition on grain boundaries. Journal of the Less Common Metals, 1990, 158, 23-33. | 0.9 | 9 |
| 193 | Excess Volume of the Solid/Liquid Interface in Fe-6 at.%Si Bicrystals Wetted by Liquid Zinc. Journal of Materials Science, 1998, 6, 179-186. | 1.2 | 9 |
| 194 | Hall current accelerator for pre-treatment of large area glass sheets. Thin Solid Films, 1999, 351, 190-193. | 0.8 | 9 |
| 195 | Vacuum arc deposition of protective layers on glass and polymer substrates. Thin Solid Films, 2001, 383, 224-226. | 0.8 | 9 |
| 196 | Faceting of the Î£ 3 coincidence tilt boundary in Nb. Journal of Materials Science, 2005, 40, 871-874. | 1.7 | 9 |
| 197 | Structure of Historical Brass Tongues and Shallots from Baroque Organs. Defect and Diffusion Forum, 2006, 249, 275-280. | 0.4 | 9 |
| 198 | Hot isostatic pressing of Cuâ€“Bi polycrystals with liquid-like grain boundary layers. Acta Materialia, 2007, 55, 335-343. | 3.8 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Motion of the faceted 57Â° $$ [11overline{2} 0] $$ tilt grain boundary in zinc. Journal of Materials Science, 2008, 43, 3860-3866. | 1.7 | 9 |
| 200 | Direct observation of strain-induced non-equilibrium grain boundaries. Materials Letters, 2015, 159, 432-435. | 1.3 | 9 |
| 201 | The effect of bismuth on microstructure evolution of ultrafine grained copper. Materials Letters, 2017, 199, 156-159. | 1.3 | 9 |
| 202 | Phase Transformations in Copperâ€”Tin Solid Solutions at High-Pressure Torsion. JETP Letters, 2019, 110, 624-628. | 0.4 | 9 |
| 203 | Ionic Nitriding of Austenitic and Ferritic Steel with the Aid of a High Aperture Hall Current Accelerator. Defect and Diffusion Forum, 2001, 194-199, 1457-1462. | 0.4 | 8 |
| 204 | Meyer-Neldel Rule for the Kinetic Properties of Grain and Interphase Boundaries. Defect and Diffusion Forum, 2001, 192-193, 15-26. | 0.4 | 8 |
| 205 | Reconstruction of Historical Alloys for Pipe Organs Brings True Baroque Music Back to Life. MRS Bulletin, 2007, 32, 249-255. | 1.7 | 8 |
| 206 | Coercivity and domain structure of nanograined Feâ€“C alloys after high-pressure torsion. Journal of Materials Science, 2008, 43, 3775-3781. | 1.7 | 8 |
| 207 | Non-destructive compositional analysis of historic organ reed pipes. Journal of Physics Condensed Matter, 2008, 20, 104250. | 0.7 | 8 |
| 208 | Reversible transformation of a grain-boundary facet into a rough-to-rough ridge in zinc. Philosophical Magazine Letters, 2008, 88, 27-36. | 0.5 | 8 |
| 209 | Phase transitions in copperâ€“silver alloys under high pressure torsion. International Journal of Materials Research, 2019, 110, 608-613. | 0.1 | 8 |
| 210 | Abnormal grain growth in Al of different purity. Materials & Design, 1997, 18, 293-295. | 5.1 | 7 |
| 211 | Vacuum arc deposition of Ti coatings. Surface and Coatings Technology, 2000, 125, 157-160. | 2.2 | 7 |
| 212 | Decay kinetics of nonequilibrium Al-Si solid solutions. Physical Review B, 2000, 61, 6019-6027. | 1.1 | 7 |
| 213 | The Temperature Influence on the Faceting of Æ©3 Grain Boundaries in Aluminium. Defect and Diffusion Forum, 2005, 237-240, 603-608. | 0.4 | 7 |
| 214 | Hardness of Nanostructured Al-Zn, Al-Mg and Al-Zn-Mg Alloys Obtained by High-Pressure Torsion. Defect and Diffusion Forum, 2006, 249, 155-160. | 0.4 | 7 |
| 215 | Faceting of Î£3 Grain Boundaries in Al. Materials Science Forum, 2007, 558-559, 949-954. | 0.3 | 7 |
| 216 | Contribution of tilt boundaries to the total energy spectrum of grain boundaries in polycrystals. JETP Letters, 2013, 96, 582-587. | 0.4 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Influence of Î²-Stabilizers on the Î±-Tiâ†'Ï‰-Ti Transformation in Ti-Based Alloys. Processes, 2020, 8, 1135. | 1.3 | 7 |
| 218 | Thermal stability and microhardness of metastable Ï‰-phase in the Ti-3.3Âat.% Co alloy subjected to high pressure torsion. Journal of Alloys and Compounds, 2020, 834, 155132. | 2.8 | 7 |
| 219 | High temperature DIGM in an Fe-5 at.% Al bicrystal during Zn diffusion. Scripta Metallurgica Et Materialia, 1992, 26, 901-906. | 1.0 | 6 |
| 220 | Vacuum arc deposition as a complementary technology to laser processing. Applied Surface Science, 1997, 109-110, 437-441. | 3.1 | 6 |
| 221 | The Effect of Pressure on Grain Boundary Wetting, Segregation and Diffusion. Defect and Diffusion Forum, 1998, 156, 163-174. | 0.4 | 6 |
| 222 | Influence of the Grain Boundary Phase Transitions on the Diffusion-Related Properties. Defect and Diffusion Forum, 2003, 216-217, 53-64. | 0.4 | 6 |
| 223 | Grain Boundary Wetting in Zn Bicrystals by a Sn-Based Melt. Defect and Diffusion Forum, 2006, 249, 235-238. | 0.4 | 6 |
| 224 | Grain Boundary Segregation and Amount of Bulk Carbides in Severely Deformed Feâ€“C Alloys. Defect and Diffusion Forum, 0, 309-310, 51-62. | 0.4 | 6 |
| 225 | Interrelation of depletion and segregation in decomposition of nanoparticles. Philosophical Magazine, 2013, 93, 1677-1689. | 0.7 | 6 |
| 226 | Microstructure evolution of Cu â€“ 22 % In alloy subjected to the high pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012093. | 0.3 | 6 |
| 227 | Continuous and Discontinuous Î±Ti Layers Between Grains of Î²(Ti,Co) Phase. Journal of Materials Engineering and Performance, 2014, 23, 1580-1584. | 1.2 | 6 |
| 228 | Phase Transformations in Ndâ€“Feâ€“B-Based Alloys under High Pressure Torsion at Different Temperatures. JETP Letters, 2020, 112, 37-44. | 0.4 | 6 |
| 229 | Omega Phase Formation in Tiâ€“3wt.%Nb Alloy Induced by High-Pressure Torsion. Materials, 2021, 14, 2262. | 1.3 | 6 |
| 230 | Second-order facetingâ€“roughening of the tilt grain boundary in zinc. International Journal of Materials Research, 2009, 100, 525-529. | 0.1 | 6 |
| 231 | Grain Boundary Zinc Penetration in Fe-Si Alloys: Premelting Phase Transition on the Grain Boundaries. Materials Science Forum, 1993, 126-128, 391-394. | 0.3 | 5 |
| 232 | Effect of Temperature and Pressure on Grain Boundary Segregation and Wetting. Defect and Diffusion Forum, 1997, 143-147, 1407-1412. | 0.4 | 5 |
| 233 | Statistics of GB misorientations in 2D polycrystalline copper foil. Materials Letters, 2017, 196, 377-380. | 1.3 | 5 |
| 234 | Grain Boundary Wetting in the Nd-Fe-B-Based Alloy. Defect and Diffusion Forum, 2017, 380, 173-180. | 0.4 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | The Enrichment of (Cu, Sn) Solid Solution Driven by High-Pressure Torsion. Crystals, 2021, 11, 766. | 1.0 | 5 |
| 236 | Formation of two amorphous phases in the Ni60Nb18Y22 alloy after high pressure torsion. Metallic Materials, 2021, 49, 17-22. | 0.2 | 5 |
| 237 | The influence of an ordering transition on the interdiffusion in Au-Cu alloys. Acta Metallurgica Et Materialia, 1995, 43, 1817-1823. | 1.9 | 4 |
| 238 | Mechanism of Diffusion Induced Recrystallization in Single Crystals of Copper. Defect and Diffusion Forum, 1997, 143-147, 1589-1594. | 0.4 | 4 |
| 239 | Morphology of Mo particles and their incorporation into the growing film during vacuum arc deposition. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 594-597. | 0.6 | 4 |
| 240 | Faceting of Æ©3 Grain Boundaries in Cu: Three-Dimensional Wulff Diagrams. Defect and Diffusion Forum, 2005, 237-240, 584-592. | 0.4 | 4 |
| 241 | Faceting of Twin Grain Boundaries in Highâ€Purity Copper Subjected to High Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900589. | 1.6 | 4 |
| 242 | DIFFUSIVE AND DISPLACIVE PHASE TRANSFORMATIONS UNDER HIGH PRESSURE TORSION. Acta Metallurgica Slovaca, 2019, 25, 230-252. | 0.3 | 4 |
| 243 | Vacuum arc deposition of Ni-Ti gradient coatings. Surface and Coatings Technology, 1998, 100-101, 316-319. | 2.2 | 3 |
| 244 | Kinetics of the Bi Segregation at Grain Boundaries in Polycrystalline Cu. Materials Science Forum, 1999, 294-296, 585-588. | 0.3 | 3 |
| 245 | Pre-treatment of large area strips with the aid of a high power Hall current accelerator. Surface and Coatings Technology, 2000, 125, 35-39. | 2.2 | 3 |
| 246 | Grain Boundary Faceting Phase Transition and Thermal Grooving in Cu. Defect and Diffusion Forum, 2003, 216-217, 93-100. | 0.4 | 3 |
| 247 | Influence of grain boundary inclination on the grain boundary and triple junction motion in Zn. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 528-532. | 0.5 | 3 |
| 248 | The Grain Boundary Wetting in the Snâ€“ 25 at% In Alloys. Defect and Diffusion Forum, 2006, 258-260, 491-496. | 0.4 | 3 |
| 249 | Grain boundary faceting-roughening in Zn. Crystallography Reports, 2009, 54, 1070-1078. | 0.1 | 3 |
| 250 | Microstructure Evolution and Some Properties of Hard Magnetic FeCr30Co8 Alloy Subjected to Torsion Combined with Tension. Materials, 2019, 12, 3019. | 1.3 | 3 |
| 251 | The Phase Transformations Induced by High-Pressure Torsion in Tiâ€“Nb-Based Alloys. Microscopy and Microanalysis, 2022, 28, 946-952. | 0.2 | 3 |
| 252 | The zinc penetration along tilt grain boundary 38Â° [100] in Fe-12at.%Si alloy near ordering A2 - B2 in the bulk. Scripta Metallurgica Et Materialia, 1991, 25, 1441-1446. | 1.0 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Diffusion induced recrystallization in single crystals of copper. Physica Status Solidi A, 1995, 150, 705-713. | 1.7 | 2 |
| 254 | The Onset of Abnormal Grain Growth in Al-Ga Polycrystals. Materials Science Forum, 1996, 207-209, 557-560. | 0.3 | 2 |
| 255 | Vacuum Arc Deposited Mo Layers: Grain Size and Roughness. Defect and Diffusion Forum, 1997, 143-147, 1637-1644. | 0.4 | 2 |
| 256 | Reconstruction of Brass for Tongues and Shallots from Baroque Organs. Defect and Diffusion Forum, 2006, 258-260, 397-402. | 0.4 | 2 |
| 257 | Discontinuous Dissolution Reaction in a Fe-13.5 at. % Zn Alloy. Materials, 2021, 14, 1939. | 1.3 | 2 |
| 258 | Computer analysis of the cemented carbidesâ€™ microstructure. Letters on Materials, 2021, 11, 447-451. | 0.2 | 2 |
| 259 | Formation and Thermal Stability of the Ï‰-Phase in Tiâ€“Nb and Tiâ€“Mo Alloys Subjected to HPT. Materials, 2022, 15, 4136. | 1.3 | 2 |
| 260 | Wetting phenomena on external and internal interfaces in solids: common features and peculiarities. Surface Science, 1991, 251-252, 674-679. | 0.8 | 1 |
| 261 | Diffusion Induced Stresses as a Driving Force for the Instability of a Solid/Liquid Interface. Defect and Diffusion Forum, 1996, 129-130, 229-242. | 0.4 | 1 |
| 262 | Normal and Abnormal Grain Growth in Tungsten Polycrystals. Materials Science Forum, 1998, 294-296, 533-536. | 0.3 | 1 |
| 263 | Grain boundaries in Nd-Fe-B-based alloys. Letters on Materials, 2020, 10, 566-571. | 0.2 | 1 |
| 264 | Modification of Biocorrosion and Cellular Response of Magnesium Alloy WE43 by Multiaxial Deformation. Metals, 2022, 12, 105. | 1.0 | 1 |
| 265 | Influence of faceting-roughening on triple-junction migration in zinc. International Journal of Materials Research, 2022, 96, 1147-1151. | 0.1 | 1 |
| 266 | The Grain Structure of Vacuum Arc Deposited Co Thin Films. Materials Science Forum, 1998, 294-296, 787-790. | 0.3 | 0 |
| 267 | Diffusion Degradation of Carbon Coatings on Various Metallic Substrates. Defect and Diffusion Forum, 2003, 216-217, 323-330. | 0.4 | 0 |
| 268 | High-Pressure Influence on the Kinetics of Grain Boundary Segregation in the Cuâ€“Bi System. Defect and Diffusion Forum, 2006, 258-260, 390-396. | 0.4 | 0 |
| 269 | Shape of Moving Grain Boundary and its Influence on Grain Boundary Motion in Zinc. Defect and Diffusion Forum, 2006, 249, 183-188. | 0.4 | 0 |
| 270 | Evaluation of the Coverage Pattern on the Fracture Surface of Bi-Embrittled Cu Grain Boundaries by Means of Auger Electron Spectroscopy. Defect and Diffusion Forum, 2008, 273-276, 643-648. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | The Influence of Quenching Baths on Grain Boundary Wetting Transition in Snâ€“25 at% In alloy. Defect and Diffusion Forum, 2008, 273-276, 649-654. | 0.4 | 0 |
| 272 | Preface to the special section on high-temperature capillarity. Journal of Materials Science, 2016, 51, 1669-1670. | 1.7 | 0 |
| 273 | Diffusion in Materials Science and Technology. , 2018, , 261-275. | | 0 |
| 274 | Phase Transformations in the Alï£¿Mg Alloys Driven by Highâ€Pressure Torsion. Physica Status Solidi (B): Basic Research, 2021, 258, 2100210. | 0.7 | 0 |
| 275 | Grain boundary faceting close to the Î£3 coincidence misorientation in copper. International Journal of Materials Research, 2022, 95, 939-944. | 0.1 | 0 |