# Yoshikazu Todaka

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 162 papers | 2,378 citations | 25 h-index | 43 g-index |
| 178 ext. papers | 2,600 ext. citations | 2.2 avg, IF | 4.83 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 162 | Theoretical and Experimental Study of CaMgSi Thermoelectric Properties.. *ACS Omega*, **2022**, 7, 15451-15458 | 3.6 | 1 |
| 161 | Increase of the mechanical response of pure aluminum by grain refinement retained with an alternative rapid sintering route. *Journal of Materials Research*, **2021**, 36, 1328-1340 | 2.5 | 2 |
| 160 | Analytical approach for pop-in and post-pop-in deformation behavior during nanoindentation: effect of solute Si in interstitial free steel. *Journal of Materials Research*, **2021**, 36, 2571-2581 | 2.5 | 0 |
| 159 | Macroscopic viscoelastic deformation at room temperature in mechanically rejuvenated Zr-based metallic glass. *MRS Communications*, **2021**, 11, 330-335 | 2.7 | |
| 158 | Revealing defect-induced spin disorder in nanocrystalline Ni. *Physical Review Materials*, **2021**, 5, | 3.2 | 5 |
| 157 | Analysis and Mapping of Detailed Inner Information of Crystalline Grain by Wavelength-Resolved Neutron Transmission Imaging with Individual Bragg-Dip Profile-Fitting Analysis. *Applied Sciences (Switzerland)*, **2021**, 11, 5219 | 2.6 | 1 |
| 156 | Effect of grain boundary on the friction coefficient of pure Fe under the oil lubrication. *Tribology International*, **2021**, 155, 106781 | 4.9 | 2 |
| 155 | Adsorption enhancement of a fatty acid on iron surface with Σ(1 1 1) grain boundary. *Applied Surface Science*, **2021**, 543, 148604 | 6.7 | 3 |
| 154 | Effect of One-Pass Strain on Steady-State Grain Size by Cyclic - HPT Straining. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2021**, 85, 67-74 | 0.4 | 0 |
| 153 | Hydrogen Permeation Property of Bulk Cementite. *ISIJ International*, **2021**, 61, 2320-2322 | 1.7 | 0 |
| 152 | Effect of hetero- and homo-nanostructure on the hydrogen embrittlement resistance in heavily deformed 316LN austenitic stainless steel. *MRS Advances*, **2021**, 6, 682-688 | 0.7 | |
| 151 | Role of higher-order effects in spin-misalignment small-angle neutron scattering of high-pressure torsion nickel. *Physical Review Materials*, **2021**, 5, | 3.2 | 2 |
| 150 | Promotion Effect of Hydrogen on Grain Refinement in Pure Fe by High-Pressure Torsion-Straining. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 4749 | 2.3 | |
| 149 | Low-temperature hydrogenation of Mg-Ni-Nb2O5 alloy processed by high-pressure torsion. *Journal of Alloys and Compounds*, **2021**, 878, 160309 | 5.7 | 5 |
| 148 | Nanostructural Characterization of Oleyl Acid Phosphate in Poly-□olefin Using Small-angle X-ray Scattering. *Chemistry Letters*, **2020**, 49, 823-825 | 1.7 | |
| 147 | Heterogeneous Nano-structure and its Evolution in Heavily Cold-rolled SUS316LN Stainless Steels. *ISIJ International*, **2020**, 60, 582-589 | 1.7 | 12 |
| 146 | Anomalous magnetic anisotropy and magnetic nanostructure in pure Fe induced by high-pressure torsion straining. *Physical Review Research*, **2020**, 2, | 3.9 | 5 |

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| 145 | Crack Propagation Behavior of Impact Fracture in Case Hardening Steel Subjected to Combined Heat Treatment with Excess Vacuum Carburizing and Subsequent Induction Hardening. *ISIJ International*, **2020**, 60, 2576-2585 | 1.7 | 1 |
| 144 | Effect of Lattice Defects on Tribological Behavior for High Friction Coefficient under TCP Added PAO Lubrication in Nanostructured Steels. *ISIJ International*, **2020**, 60, 1358-1365 | 1.7 | 4 |
| 143 | Lower and Higher Friction Coefficients under Oil Lubrication Based on Microstructure Control in Steels. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2020**, 71, 756-762 | 0.1 | |
| 142 | Finite element analysis on rolling contact fatigue of surface nanostructured steel (Effect of friction coefficient on mean shear stress under cyclic loading). *Transactions of the JSME (in Japanese)*, **2020**, 86, 19-00270-19-00270 | 0.2 | 0 |
| 141 | Friction Property under Lubrication for Case Hardening Steel Subjected to Combined Thermomechanical Treatment with Excess Vacuum Carburizing and Subsequent Severe Plastic Deformation and Induction Hardening. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2020**, 106, 194-204 | 0.5 | 3 |
| 140 | Wear and Adhesion Properties of High-Pressure Torsion Processed Carbon Steel. *Key Engineering Materials*, **2020**, 846, 157-161 | 0.4 | |
| 139 | Formation of a metastable fcc phase and high Mg solubility in the Ti-Mg system by mechanical alloying. *Powder Technology*, **2020**, 374, 348-352 | 5.2 | 4 |
| 138 | Crystal Plasticity Simulation on Effect of Heterogeneous-nanostructure Induced by Severe Cold-rolling on Mechanical Properties of Austenitic Stainless Steel. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 262-271 | 0.5 | 16 |
| 137 | Effect of Lattice Defects on Tribological Behavior for High Friction Coefficient under TCP added PAO Lubrication in Nanostructured Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 282-289 | 0.5 | 3 |
| 136 | Chemisorption enhancement of single carbon and oxygen atoms near the grain boundary on Fe surface: ab initio study. *Applied Surface Science*, **2019**, 493, 1042-1047 | 6.7 | 10 |
| 135 | Heterogeneous Nano-structure and Its Evolution in Heavily Cold-rolled SUS316LN Stainless Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 254-261 | 0.5 | 7 |
| 134 | Fatigue Fracture of Duplex Stainless Steel with Heterogeneous Nanostructure by Heavy Cold Rolling. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 272-281 | 0.5 | 4 |
| 133 | Impact Property of Case Hardening Steel Subjected to Combined Heat Treatment with Excess Vacuum Carburizing and Subsequent Induction Hardening. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 837-846 | 0.5 | 1 |
| 132 | Microstructure and Tribological Properties of Sub-Microcrystalline Carbon Steel Produced by Severe Plastic Deformation. *Applied Mechanics and Materials*, **2018**, 876, 3-8 | 0.3 | |
| 131 | Effect of grain size on friction coefficient under oil lubrication in nanostructured Fe fabricated by PVD and SPD methods. *Procedia Manufacturing*, **2018**, 15, 1693-1700 | 1.5 | 7 |
| 130 | Mechanical properties and plastic deformation behavior of severely deformed pure Fe. *Procedia Manufacturing*, **2018**, 15, 1495-1501 | 1.5 | 2 |
| 129 | Crystal Plasticity Simulation Considering Microstructures of Austenitic Stainless Steel on Macroscopic Yield Function. *Materials Science Forum*, **2018**, 941, 212-217 | 0.4 | 2 |
| 128 | Tensile deformation characteristics of a CuNiSi alloy containing trace elements processed by high-pressure torsion with subsequent aging. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 730, 10-15 | 5.3 | 14 |

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| 127 | Heterogeneous nanostructure developed in heavily cold-rolled stainless steels and the specific mechanical properties. *Scripta Materialia*, **2017**, 133, 33-36 | 5.6 | 38 |
| 126 | Microstructure and Wear Properties of High-Pressure Torsion Processed Iron. *Materials Science Forum*, **2017**, 890, 371-374 | 0.4 | 3 |
| 125 | Effects of Natural Aging on Age-Hardening Behavior of Cu-Be-Co and Cu-Ti Alloys Severely Deformed by High-Pressure Torsion. *Materials Transactions*, **2017**, 58, 1346-1350 | 1.3 | 2 |
| 124 | Influences of Heterogeneous Nano-Structure Developed in Heavily Cold-Rolled Austenitic Stainless Steel on Texture and Ductility. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2017**, 81, 536-541 | 0.4 | 11 |
| 123 | Thermoelectric property of bulk CaMgSi intermetallic compound. *Journal of Alloys and Compounds*, **2017**, 691, 914-918 | 5.7 | 16 |
| 122 | Inverse pole figure mapping of bulk crystalline grains in a polycrystalline steel plate by pulsed neutron Bragg-dip transmission imaging. *Journal of Applied Crystallography*, **2017**, 50, 1601-1610 | 3.8 | 11 |
| 121 | Phase transformation in Fe□Mn□ alloys by severe plastic deformation under high pressure. *Materials Letters*, **2016**, 185, 109-111 | 3.3 | 3 |
| 120 | Electrochemical Behaviors of Biomedical Nanograined □Type Titanium Alloys. *Materials Science Forum*, **2016**, 879, 2549-2554 | 0.4 | |
| 119 | Mechanical and Surface Functionalities of Nanostructured □ype Titanium Alloys Through Severe Plastic Deformation **2016**, 1761-1766 | | 1 |
| 118 | Phase transformation kinetics of □phase in pure Ti formed by high-pressure torsion. *Journal of Materials Science*, **2016**, 51, 2608-2615 | 4.3 | 16 |
| 117 | Electronic and crystal structures of thermoelectric CaMgSi intermetallic compound. *Journal of Electron Spectroscopy and Related Phenomena*, **2016**, 206, 18-23 | 1.7 | 7 |
| 116 | Developing biomedical nano-grained □type titanium alloys using high pressure torsion for improved cell adherence. *RSC Advances*, **2016**, 6, 7426-7430 | 3.7 | 19 |
| 115 | Influence of Hydrogen on Local Mechanical Properties of Pure Fe with Different Dislocation Densities Investigated by Electrochemical Nanoindentation. *ISIJ International*, **2016**, 56, 2298-2303 | 1.7 | 2 |
| 114 | Orientation relationship between □phase and high-pressure □phase of pure group IV transition metals. *Scripta Materialia*, **2015**, 98, 1-4 | 5.6 | 8 |
| 113 | Evolution of deformation texture of high-pressure □phases in pure Ti and Zr during high-pressure torsion straining. *IOP Conference Series: Materials Science and Engineering*, **2015**, 82, 012020 | 0.4 | 6 |
| 112 | Sliding wear behavior of sub-microcrystalline pure iron produced by high-pressure torsion straining. *Wear*, **2015**, 336-337, 58-68 | 3.5 | 33 |
| 111 | Cause of hardening and softening in the bulk glassy alloy Zr50Cu40Al10 after high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 627, 171-181 | 5.3 | 11 |
| 110 | Effect of Lattice Defects on Tribological Behavior for Low Friction Coefficient under Lubricant in Nanostructured Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2015**, 101, 530-535 | 0.5 | 10 |

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| 109 | Mechanical behavior of a microsized pillar fabricated from ultrafine-grained ferrite evaluated by a microcompression test. *Acta Materialia*, **2014**, 73, 12-18 | 8.4 | 13 |
| 108 | Microstructural evolution of precipitation-hardened □type titanium alloy through high-pressure torsion. *Acta Materialia*, **2014**, 80, 172-182 | 8.4 | 27 |
| 107 | Microstructural refinement and wear property of Al□Si□Cu composite subjected to extrusion and high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 618, 377-384 | 5.3 | 33 |
| 106 | Improving the mechanical properties of Zr-based bulk metallic glass by controlling the activation energy for □relaxation through plastic deformation. *Applied Physics Letters*, **2014**, 105, 131910 | 3.4 | 18 |
| 105 | Cutting and rubbing process for a Ti-6Al-4V alloys, and its effects. *Transactions of the JSME (in Japanese)*, **2014**, 80, SMM0296-SMM0296 | 0.2 | 2 |
| 104 | Radiographic and Tomographic Neutron Bragg Imaging for Quantitative Visualization of Wide Area Crystalline Structural Information. *Materials Science Forum*, **2014**, 783-786, 2109-2114 | 0.4 | |
| 103 | Nanostructure and Fatigue Behavior of □Type Titanium Alloy Subjected to High-Pressure Torsion after Aging Treatment. *Advanced Materials Research*, **2014**, 891-892, 9-14 | 0.5 | |
| 102 | Nanostructure Of □type Titanium Alloys Through Severe Plastic Deformation. *Advanced Materials Letters*, **2014**, 5, 378-383 | 2.4 | 9 |
| 101 | Elastic properties of single-crystalline □phase in titanium. *Acta Materialia*, **2013**, 61, 7543-7554 | 8.4 | 80 |
| 100 | Mechanical properties of a medical □type titanium alloy with specific microstructural evolution through high-pressure torsion. *Materials Science and Engineering C*, **2013**, 33, 2499-507 | 8.3 | 84 |
| 99 | Heterogeneous grain refinement of biomedical Ti□29Nb□13Ta□4.6Zr alloy through high-pressure torsion. *Scientia Iranica*, **2013**, 20, 1067-1067 | 1.5 | 8 |
| 98 | 207 Effects of high-pressure torsion on corrosion behaviors of biomedical p-type titanium alloy in simulated body fluids. *The Proceedings of the Materials and Processing Conference*, **2013**, 2013.21, _207-1□-_207-5_ | | |
| 97 | Heterogeneous structure and mechanical hardness of biomedical □type Ti-29Nb-13Ta-4.6Zr subjected to high-pressure torsion. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 10, 235-45 | 4.1 | 44 |
| 96 | Annealing behavior of nano-crystalline austenitic SUS316L produced by HPT. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 556, 906-910 | 5.3 | 42 |
| 95 | Property evolution on annealing deformed 304 austenitic stainless steel. *Journal of Materials Science*, **2012**, 47, 8128-8133 | 4.3 | 9 |
| 94 | G-phase precipitation in austenitic stainless steel deformed by high pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 552, 194-198 | 5.3 | 36 |
| 93 | Microstructure and Mechanical Properties of a Biomedical □Type Titanium Alloy Subjected to Severe Plastic Deformation after Aging Treatment. *Key Engineering Materials*, **2012**, 508, 152-160 | 0.4 | 6 |
| 92 | Dry Sliding Wear Properties of Sub-Microcrystalline Ultra-Low Carbon Steel Produced by High-Pressure Torsion Straining. *Materials Transactions*, **2012**, 53, 128-132 | 1.3 | 5 |

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| 91 | Comparative Analysis of Plastic Flow and Grain Refinement in Pure Aluminium Subjected to Simple Shear-Based Severe Plastic Deformation Processing. *Materials Transactions*, **2012**, 53, 17-25 | 1.3 | 10 |
| 90 | Effect of high-pressure torsion processing on microstructure and mechanical properties of a novel biomedical □type Ti-29Nb-13Ta-4.6Zr after cold rolling. *International Journal of Microstructure and Materials Properties*, **2012**, 7, 168 | 0.4 | 4 |
| 89 | Pressure-induced Phase Transformation Behavior in ^\|^alpha;-Mn Steels by High-pressure Torsion Straining. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2012**, 98, 541-547 | 0.5 | 1 |
| 88 | 420 Improvement of Mechanical Biocompatibility in Ti-29Nb-13Ta-4.6Zr through High Pressure Torsion for Biomedical Applications. *The Proceedings of the Materials and Processing Conference*, **2012**, 2012.20, _420-1_-_420-2_ | 0 | |
| 87 | 419 Microstructural evaluation of □type Ti-29Nb-13Ta-4.6Zr through high-pressure torsion after cold rolling and aging treatment. *The Proceedings of the Materials and Processing Conference*, **2012**, 2012.20, _419-1_-_419-5_ | 0 | |
| 86 | Formation of bimodal grain structures in high purity Al by reversal high pressure torsion. *Scripta Materialia*, **2011**, 64, 498-501 | 5.6 | 22 |
| 85 | Synthesis of non-equilibrium phases in immiscible metals mechanically mixed by high pressure torsion. *Journal of Materials Science*, **2011**, 46, 4296-4301 | 4.3 | 32 |
| 84 | Fabrication of high strength Cu□NbC composite conductor by high pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 1750-1756 | 5.3 | 23 |
| 83 | Magnetic Characterization of SUS316L Deformed by High Pressure Torsion. *Advanced Materials Research*, **2011**, 239-242, 1300-1303 | 0.5 | 0 |
| 82 | Mechanical Behavior on Micro-compression Test in Ultra-low Carbon Steel Produced by High Pressure Torsion. *Materials Research Society Symposia Proceedings*, **2011**, 1297, 169 | | 2 |
| 81 | OS2314 Rolling contact fatigue behavior of S45C tempered martensite steel with ultra-fine grained structure by surface severe plastic deformation and super rapid induction heating and quenching. *The Proceedings of the Materials and Mechanics Conference*, **2011**, 2011, _OS2314-1_-_OS2314-2_ | 0 | |
| 80 | Hydrogen Embrittlement of Submicrocrystalline Ultra-Low Carbon Steel Produced by High-Pressure Torsion Straining. *Advanced Materials Research*, **2010**, 89-91, 763-768 | 0.5 | 6 |
| 79 | Anomalous Property Evolution during Annealing in HPTed SUS 304 Austenitic Stainless Steel. *Materials Science Forum*, **2010**, 667-669, 589-592 | 0.4 | |
| 78 | Phase Transformation and Annealing Behavior of SUS 304 Austenitic Stainless Steel Deformed by High Pressure Torsion. *Materials Science Forum*, **2010**, 654-656, 334-337 | 0.4 | 9 |
| 77 | Influence of strain amount on stabilization of □phase in pure Ti by severe plastic deformation under high-pressure torsion. *Journal of Physics: Conference Series*, **2010**, 240, 012113 | 0.3 | 5 |
| 76 | Fabrication of ZrAlNiCu bulk metallic glass composites containing pure copper particles by high-pressure torsion. *Journal of Alloys and Compounds*, **2010**, 492, 149-152 | 5.7 | 15 |
| 75 | Effect of ethanol on the formation and properties of a Cu□NbC composite. *Journal of Alloys and Compounds*, **2010**, 503, 228-232 | 5.7 | 19 |
| 74 | Heterogeneous Process of Disordering and Structural Refinement in Ni3Al during Severe Plastic Deformation by High-Pressure Torsion. *Materials Transactions*, **2010**, 51, 14-22 | 1.3 | 25 |

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| 73 | Formation of Ultrafine-grained Structure at Drill-hole Surface of Martensitic Steels by High-speed Drilling and Their Mechanical Properties. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2010**, 96, 21-28 | 0.5 | 2 |
| 72 | Work-Softening, High Pressure Phase Formation and Powder Consolidation by HPT. *Materials Science Forum*, **2010**, 654-656, 1205-1210 | 0.4 | 4 |
| 71 | Evaluation of joint interface of friction stir welding between dissimilar metals using HTS-SQUID gradiometer. *Physica C: Superconductivity and Its Applications*, **2010**, 470, 1524-1528 | 1.3 | 1 |
| 70 | Development of Shape Memory Actuator for Cryogenic Application **2010**, 413-423 | | |
| 69 | S0201-1-4 Change in microstructure and mechanical properties of □type Ti-29Nb-13Ta-4.6Zr by high-pressure torsion. *The Proceedings of the JSME Annual Meeting*, **2010**, 2010.5, 17-18 | | |
| 68 | Tensile and fatigue properties of sub-microcrystalline ultra-low carbon steel produced by hpt-straining. *International Journal of Materials Research*, **2009**, 100, 775-779 | 0.5 | 6 |
| 67 | Production of TiNi amorphous/nanocrystalline wires with high strength and elastic modulus by severe cold drawing. *Scripta Materialia*, **2009**, 60, 749-752 | 5.6 | 98 |
| 66 | Texture evolution in pure aluminum subjected to monotonous and reversal straining in high-pressure torsion. *Scripta Materialia*, **2009**, 60, 893-896 | 5.6 | 62 |
| 65 | Role of strain reversal in grain refinement by severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 499, 427-433 | 5.3 | 66 |
| 64 | Fabrication of CuZr(Al) bulk metallic glasses by high pressure torsion. *Intermetallics*, **2009**, 17, 256-261 | 3.5 | 32 |
| 63 | Effect of Nanocrystallization and Twinning on Hardness in Ni3Al Deformed by High-Pressure Torsion. *Materials Transactions*, **2009**, 50, 1123-1127 | 1.3 | 10 |
| 62 | Thermoelectric Properties of Ca-Mg-Si Alloys. *Materials Transactions*, **2009**, 50, 1725-1729 | 1.3 | 21 |
| 61 | Bulk submicrocrystalline □Ti produced by high-pressure torsion straining. *Scripta Materialia*, **2008**, 59, 615-618 | 5.6 | 128 |
| 60 | Reversal Straining to Manage Structure in Pure Aluminum under SPD. *Materials Science Forum*, **2008** , 584-586, 133-138 | 0.4 | 5 |
| 59 | TEM investigation of intermediate phase transformation and micromodulation in Ni□Mn□Ga ferromagnetic shape memory alloys. *Materials Science and Technology*, **2008**, 24, 920-926 | 1.5 | 5 |
| 58 | Tensile Property of Submicrocrystalline Pure Fe Produced by HPT-Straining. *Materials Science Forum*, **2008**, 584-586, 597-602 | 0.4 | 23 |
| 57 | Strain Gradient Hardening and Pressure Induced Phase Transformation of Metals by HPT. *Materials Science Forum*, **2008**, 584-586, 493-500 | 0.4 | 3 |
| 56 | Thermoelectric Property of Na-Doped Mg2Si. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2008**, 72, 693-697 | 0.4 | 10 |

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| 55 | Influence of High-Pressure Torsion Straining Conditions on Microstructure Evolution in Commercial Purity Aluminum. *Materials Transactions*, **2008**, 49, 7-14 | 1.3 | 63 |
| 54 | Effect of Strain Path in High-Pressure Torsion Process on Hardening in Commercial Purity Titanium. *Materials Transactions*, **2008**, 49, 47-53 | 1.3 | 63 |
| 53 | Change in Microstructure and Mechanical Properties of Steel Components Surface Layer. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2008**, 94, 616-628 | 0.5 | 12 |
| 52 | Solid-state amorphization of Cu + Zr multi-stacks by ARB and HPT techniques. *Journal of Materials Science*, **2008**, 43, 7457-7464 | 4.3 | 14 |
| 51 | A microstructural investigation of the surface of a drilled hole in carbon steels. *Acta Materialia*, **2007**, 55, 1397-1406 | 8.4 | 46 |
| 50 | Role of strain gradient on grain refinement by severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 264-268 | 5.3 | 60 |
| 49 | Phase transformation, magnetic property and microstructure of Ni□Mn□□Co□Ga ferromagnetic shape memory alloys. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 2764-2766 | 2.8 | 3 |
| 48 | Formation of a nanocrystalline surface layer on steels by air blast shot peening. *Journal of Materials Science*, **2007**, 42, 7716-7720 | 4.3 | 66 |
| 47 | Role of Strain Gradient and Dynamic Transformation on the Formation of Nanocrystalline Structure Produced by Severe Plastic Deformation. *Materials Science Forum*, **2007**, 539-543, 2787-2792 | 0.4 | 4 |
| 46 | Microstructural Evolution during Isothermal Aging in Ni-Rich Ti-Zr-Ni Shape Memory Alloys. *Materials Transactions*, **2007**, 48, 432-438 | 1.3 | 23 |
| 45 | Phase Transformation and Magnetic Properties of Ferromagnetic Cu-Mn-Ga Alloys. *Materials Transactions*, **2007**, 48, 2840-2846 | 1.3 | 4 |
| 44 | Formation of Surface Nanocrystalline Structure in Steels by Shot Peening and Role of Strain Gradient on Grain Refinement by Deformation. *ISIJ International*, **2007**, 47, 157-162 | 1.7 | 24 |
| 43 | Dissolution of cementite in carbon steels by ball drop deformation and laser heating. *Journal of Alloys and Compounds*, **2007**, 434-435, 497-500 | 5.7 | 12 |
| 42 | Role of strain gradient on the formation of nanocrystalline structure produced by severe plastic deformation. *Journal of Alloys and Compounds*, **2007**, 434-435, 290-293 | 5.7 | 9 |
| 41 | Strength and deformation behavior of bulky cementite synthesized by mechanical milling and plasma-sintering. *Scripta Materialia*, **2006**, 54, 1925-1929 | 5.6 | 18 |
| 40 | Influence of isothermal ageing on mechanical behaviour in Ni-rich Ti□Zr□Ni shape memory alloy. *Scripta Materialia*, **2006**, 55, 1079-1082 | 5.6 | 28 |
| 39 | Nanocrystalline Structure in Steels Produced by Various Severe Plastic Deformation Processes. *Materials Science Forum*, **2006**, 503-504, 11-18 | 0.4 | 8 |
| 38 | Dissolution of Cementite in Carbon Steels by Heavy Deformation and Laser Heat Treatment. *Materials Science Forum*, **2006**, 503-504, 461-468 | 0.4 | 2 |

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| 37 | Formation of Nanocrystalline Structure by Shot Peening. *Materials Science Forum*, **2006**, 503-504, 669-674 | 0.4 | 10 |
| 36 | Phase Transformation and Magnetic Properties of Ferromagnetic Cu-Mn-Ga Alloys. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2006**, 70, 849-855 | 0.4 | 2 |
| 35 | Influence of Shot Peening Condition on Surface Amorphization/Nanocrystallization in TiNi Shape Memory Alloy. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2006**, 70, 473-477 | 0.4 | 3 |
| 34 | Nanocrystalline structure formation in carbon steel introduced by high speed drilling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 435-436, 383-388 | 5.3 | 22 |
| 33 | Martensitic transformation in nanostructured TiNi shape memory alloy formed via severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 643-648 | 5.3 | 95 |
| 32 | Two-body abrasive wear property of cementite. *Wear*, **2006**, 260, 1090-1095 | 3.5 | 10 |
| 31 | Phase Transformation and Magnetic Properties in Ni52FexMn21□Ga27 Alloys. *ISIJ International*, **2006**, 46, 1283-1286 | 1.7 | 3 |
| 30 | Nanocrystallization of Martensite Steels and Ti-6Al-4V Alloy by Shot Peening. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 471-474 | 0.2 | 1 |
| 29 | Nanocrystallization in Carbon Steels by Various Severe Plastic Deformation Processes **2005**, 505-510 | | |
| 28 | Nanocrystallization of Drill Hole Surface by High Speed Drilling. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 601-604 | 0.2 | 5 |
| 27 | Surface Amorphization of TiNi Shape Memory Alloy by Shot Peening. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 615-618 | 0.2 | 1 |
| 26 | Deformation and Dissolution of Cementite by Severe Plastic Deformation. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 157-160 | 0.2 | |
| 25 | Comparison of Nanocrystallization in Steels by Ball Milling, Shot Peening and Drilling. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 571-576 | 0.2 | 5 |
| 24 | Microstructural Change of Cementite in Carbon Steels by Deformation. *Materials Science Forum*, **2004**, 449-452, 525-528 | 0.4 | 5 |
| 23 | Formation of Nanocrystalline Structure in Steels by Air Blast Shot Peening and Particle Impact Processing. *Materials Science Forum*, **2004**, 449-452, 1149-1152 | 0.4 | 11 |
| 22 | Surface Amorphization in Intermetallic Compounds by Shot Peening. *Materials Science Forum*, **2004**, 449-452, 197-200 | 0.4 | |
| 21 | High temperature deformation behavior of bulk cementite produced by mechanical alloying and spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 894-898 | 5.3 | 26 |
| 20 | Influence of Heat Treatment on Phase Transformation of Ni-rich TiNi Foils Produced via Ultrafine Laminates. *Materials Transactions*, **2004**, 45, 219-224 | 1.3 | 7 |

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| 19 | Comparison of Nanocrystalline Surface Layer in Steels Formed by Air Blast and Ultrasonic Shot Peening. *Materials Transactions*, **2004**, 45, 376-379 | 1.3 | 69 |
| 18 | Formation of Nanocrystalline Structure at the Surface of Drill Hole in Steel. *Materials Transactions*, **2004**, 45, 2209-2213 | 1.3 | 22 |
| 17 | Microstructural Changes of Cementite in Pearlite Steel by Cold Rolling. *Materia Japan*, **2004**, 43, 1022-1022 | 1.1 | |
| 16 | Synthesis of Ferrite Nanoparticles by Mechanochemical Processing Using a Ball Mill. *Materials Transactions*, **2003**, 44, 277-284 | 1.3 | 22 |
| 15 | Formation of Nanocrystalline Structure in Steels by Air Blast Shot Peening. *Materials Transactions*, **2003**, 44, 1488-1493 | 1.3 | 122 |
| 14 | Growth of Fe3O4 whiskers from solid solution nanoparticles of Fe□Cu and Fe□Ag systems produced by DC plasma jet method. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 340, 114-122 | 5.3 | 9 |
| 13 | Partial Amorphization in B2 Type Shape Memory Alloys by Cold Rolling. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 283-288 | 0.2 | 5 |
| 12 | Characterization of Bulk Cementite Produced by Mechanical Alloying and Spark Plasma Sintering. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 607-614 | 0.2 | 24 |
| 11 | Comparison of Nanocrystallization in Steels by Ball Milling and Ball Drop Test. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 193-198 | 0.2 | 2 |
| 10 | Nanocrystalline Surface Layer of Steels Produced by Shot Peening. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2003**, 67, 690-696 | 0.4 | 24 |
| 9 | Synthesis of Ferrite Nanoparticles by Mechanochemical Processing using a Ball Mill. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2002**, 66, 34-39 | 0.4 | 4 |
| 8 | Growth of Fe Oxide Whisker from Fe-Cu and Fe-Ag Supersaturated Solid Solution Nanoparticles. *Materials Science Forum*, **2002**, 386-388, 269-274 | 0.4 | 1 |
| 7 | Synthesis of Fe-Cu Nanoparticles by Mechanochemical Processing Using a Ball Mill. *Materials Transactions*, **2002**, 43, 667-673 | 1.3 | 10 |
| 6 | Nanocrystallization in Fe-C Alloys by Ball Milling and Ball Drop Test.. *ISIJ International*, **2002**, 42, 1430-1437 | 1.7 | 11 |
| 5 | Synthesis of Fe-Cu ultrafine particles by mechanochemical processing and their characterization. *Scripta Materialia*, **2001**, 44, 1797-1801 | 5.6 | 2 |
| 4 | Nanostructures of Ti-Ni-N ultrafine particles produced by DC plasma jet method. *Scripta Materialia*, **2001**, 44, 2273-2277 | 5.6 | 1 |
| 3 | Nanostructures of Ti-Ni-N Ultrafine Particles Produced by DC Plasma Jet Method. *Materials Science Forum*, **2001**, 360-362, 391-396 | 0.4 | |
| 2 | Production of Fe-Cu Ultrafine Particles by Plasma Jet Method. *Materials Science Forum*, **2000**, 343-346, 525-530 | 0.4 | 3 |

# List of Publications

1 Recrystallization Behavior in Ti-13Cr-lFe-3Al Alloy after Severe Plastic Deformation895-902