

Shoichi Kikuchi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

1,058
citations

19
h-index

25
g-index

125
ext. papers

1,316
ext. citations

2.3
avg, IF

4.74
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 117 | Rapid Nitriding Without Heating Using Fine Particle Peening. <i>Materia Japan</i> , 2022 , 61, 153-159 | 0.1 | |
| 116 | Fatigue limit estimation for carburized steels with surface compressive residual stress considering residual stress relaxation. <i>International Journal of Fatigue</i> , 2022 , 160, 106846 | 5 | 2 |
| 115 | Harmonic structure, a promising microstructure design. <i>Materials Research Letters</i> , 2022 , 10, 440-471 | 7.4 | 2 |
| 114 | Evaluation of the Compressive Residual Stress Relaxation Behavior by <i>in situ</i> X-ray Stress Measurement. <i>ISIJ International</i> , 2022 , 62, 758-765 | 1.7 | 0 |
| 113 | Rapid Nitriding of Titanium Alloy with Fine Grains at Room Temperature. <i>Advanced Materials</i> , 2021 , 33, e2008298 | 24 | 4 |
| 112 | Effect of Fine Particle Peening Using Hydroxyapatite Particles on Rotating Bending Fatigue Properties of β -Type Titanium Alloy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4307 | 2.6 | 2 |
| 111 | Effects of rolling reduction and direction on fatigue crack propagation in commercially pure titanium with harmonic structure. <i>International Journal of Fatigue</i> , 2021 , 143, 106018 | 5 | 6 |
| 110 | Evaluation of the Compressive Residual Stress Relaxation Behavior by <i>in situ</i> X-ray Stress Measurement. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2021 , 107, 137-145 | 0.5 | 1 |
| 109 | Peening Natural Aging of Aluminum Alloy by Ultra-High-Temperature and High-Pressure Cavitation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2894 | 2.6 | 2 |
| 108 | Combined Effects of TiB Volume Fraction and Orientation on Four-Point Bending Fatigue Properties of TiB-Reinforced TiBAl ₂ Si ₂ Composite. <i>Materials Transactions</i> , 2021 , 62, 935-942 | 1.3 | 1 |
| 107 | Bimodal Microstructure Design of CrMnFeCoNi High-Entropy Alloy Using Powder Metallurgy. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2021 , 70, 648-655 | 0.1 | 2 |
| 106 | Improvement in the quality of the processed material surfaces lies in the moving of nozzle in the cavitation processing. <i>Surfaces and Interfaces</i> , 2021 , 25, 101206 | 4.1 | 1 |
| 105 | Formation of a phosphoric acid compound film on an AZ31 magnesium alloy surface using cavitation bubbles. <i>Surfaces and Interfaces</i> , 2021 , 25, 101194 | 4.1 | 3 |
| 104 | Compliance method to measure crack length and crack closure for automated fatigue crack propagation test of nanocrystalline nickel film. <i>Engineering Fracture Mechanics</i> , 2021 , 254, 107925 | 4.2 | 0 |
| 103 | Effects of Grain Size and Grain Boundary Stability on Mechanical and Fatigue Properties of Nanocrystalline Nickel Thin Films. <i>Materials Transactions</i> , 2021 , 62, 1320-1327 | 1.3 | 1 |
| 102 | Combined Effect of Gas Blow Induction Heating Nitriding and Post-Treatment with Fine Particle Peening on Surface Properties and Wear Resistance of Titanium Alloy. <i>Materials Transactions</i> , 2021 , 62, 1502-1509 | 1.3 | 3 |
| 101 | Effects of texture and stress sequence on twinning, detwinning and fatigue crack initiation in extruded magnesium alloy AZ31. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 141941 | 5.3 | 2 |

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| 100 | Effect of Nitrided-Fine Particles Peening on Formation of Nitrided Layer and Fatigue Properties of Titanium Alloys. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2021 , 70, 869-875 | 0.1 | 0 |
| 99 | Characterization of surface layer formed by gas blow induction heating nitriding at different temperatures and its effect on the fatigue properties of titanium alloy. <i>Results in Materials</i> , 2020 , 5, 100071 | 2.7 | 9 |
| 98 | Combined effects of low temperature nitriding and cold rolling on fatigue properties of commercially pure titanium. <i>International Journal of Fatigue</i> , 2020 , 139, 105772 | 5 | 8 |
| 97 | Effect of Soft-Fine Particle Peening on Rotating Bending Fatigue Properties of Gas Carburized SCM420H Steel. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2020 , 106, 765-776 | 0.5 | 4 |
| 96 | Microstructural Characterization and Wear Behavior of Sintered Compacts Fabricated from Plasma-Nitrided Commercially Pure Titanium Powder. <i>Materials Transactions</i> , 2020 , 61, 2284-2291 | 1.3 | 5 |
| 95 | The effects of thermo-mechanical processing on fatigue crack propagation in commercially pure titanium with a harmonic structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138892 | 5.3 | 13 |
| 94 | Investigation on the Durability of Ti-6Al-4V Alloy Designed in a Harmonic Structure via Powder Metallurgy: Fatigue Behavior and Specimen Size Parameter Issue. <i>Metals</i> , 2020 , 10, 636 | 2.3 | 3 |
| 93 | Rapid nitriding mechanism of titanium alloy by gas blow induction heating. <i>Surface and Coatings Technology</i> , 2020 , 399, 126160 | 4.4 | 10 |
| 92 | Effect of TiB orientation on four-point bending fatigue properties of TiB-reinforced Ti-3Al-2.5V alloy treated with heat extrusion. <i>Engineering Fracture Mechanics</i> , 2020 , 238, 107284 | 4.2 | 4 |
| 91 | Effect of bimodal harmonic structure on fatigue properties of austenitic stainless steel under axial loading. <i>International Journal of Fatigue</i> , 2019 , 127, 222-228 | 5 | 11 |
| 90 | Formation of a hydroxyapatite layer on Ti-9Nb-3Ta-0.6Zr and enhancement of four-point bending fatigue characteristics by fine particle peening. <i>International Journal of Lightweight Materials and Manufacture</i> , 2019 , 2, 227-234 | 2.2 | 4 |
| 89 | Strengthening Mechanism of Titanium Boride Whisker-Reinforced Ti-6Al-4V Alloy Matrix Composites with the TiB Orientation Perpendicular to the Loading Direction. <i>Materials</i> , 2019 , 12, | 3.5 | 9 |
| 88 | Crack initiation behavior of titanium boride whisker reinforced titanium matrix composites during small punch testing. <i>Material Design and Processing Communications</i> , 2019 , 1, e80 | 0.9 | 6 |
| 87 | Forefront in Biomedical Materials. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2019 , 68, 723-729 | 0.1 | |
| 86 | Evaluation of Fatigue Properties under Four-point Bending and Fatigue Crack Propagation in Austenitic Stainless Steel with a Bimodal Harmonic Structure. <i>Frattura Ed Integrita Strutturale</i> , 2019 , 13, 545-553 | 0.9 | 8 |
| 85 | Evaluation of misorientation on metal material by Diffraction Contrast Tomography measurement Using Synchrotron Radiation. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2019 , 2019, OS1605 | 0 | |
| 84 | Observations of Twinning and Detwinning in Magnesium Alloy by Synchrotron Radiation DCT and EBSD. <i>Procedia Structural Integrity</i> , 2019 , 23, 83-88 | 1 | 4 |
| 83 | Effect of TiB Orientation on Near-Threshold Fatigue Crack Propagation in TiB-Reinforced Ti-3Al-2.5V Matrix Composites Treated with Heat Extrusion. <i>Materials</i> , 2019 , 12, | 3.5 | 11 |

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| 82 | Mechanism of Fatigue Crack Initiation and Propagation in Commercially Pure Titanium and Titanium Alloy with Bimodal Harmonic Structure. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2019 , 66, 97-102 | 0.2 | 1 |
| 81 | Improvement of fatigue properties of Ti-6Al-4V alloy under four-point bending by low temperature nitriding. <i>International Journal of Fatigue</i> , 2019 , 120, 134-140 | 5 | 23 |
| 80 | Effect of pre-treatment with fine particle peening on surface properties and wear resistance of gas blow induction heating nitrided titanium alloy. <i>Surface and Coatings Technology</i> , 2019 , 359, 476-484 | 4.4 | 22 |
| 79 | Dynamic recrystallization of Fe-Cr alloys by atmospheric-controlled induction-heating fine particle peening. <i>Surface and Coatings Technology</i> , 2018 , 344, 410-417 | 4.4 | 3 |
| 78 | Fractographic analysis of fatigue crack initiation and propagation in CP titanium with a bimodal harmonic structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 716, 228-234 | 5.3 | 22 |
| 77 | Formation of commercially pure titanium with a bimodal nitrogen diffusion phase using plasma nitriding and spark plasma sintering. <i>Powder Technology</i> , 2018 , 330, 349-356 | 5.2 | 21 |
| 76 | Effect of the Nitrogen Diffusion Layer Formed by Gas Blow Induction Heating Nitriding on Wear Resistance and Fatigue Properties of Titanium Alloy. <i>Proceedings (mdpi)</i> , 2018 , 2, 409 | 0.3 | 2 |
| 75 | Effect of Cr Diffused Layer Formed by AIH-FPP Treatment on Adhesion of DLC Films to a Carbon Steel Substrate. <i>Materials Transactions</i> , 2018 , 59, 642-647 | 1.3 | 3 |
| 74 | Statistical fatigue properties and small fatigue crack propagation in bimodal harmonic structured Ti-6Al-4V alloy under four-point bending. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 711, 29-36 | 5.3 | 24 |
| 73 | Effect of atmospheric-controlled induction-heating fine particle peening on electrochemical characteristics of austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2018 , 334, 189-195 | 4.4 | 16 |
| 72 | Fatigue Damage Evaluation by Diffraction Contrast Tomography Using Ultra-Bright Synchrotron Radiation. <i>Proceedings (mdpi)</i> , 2018 , 2, 380 | 0.3 | |
| 71 | Formation of Titanium/Zirconia Based Biomaterial Fabricated by Spark Plasma Sintering. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2018 , 82, 341-348 | 0.4 | 6 |
| 70 | Improvement of the electrochemical characteristics of medium carbon steel using atmospheric-controlled induction-heating fine particle peening. <i>Surface and Coatings Technology</i> , 2018 , 354, 76-82 | 4.4 | 8 |
| 69 | Effect of bimodal grain size distribution on fatigue properties of Ti-6Al-4V alloy with harmonic structure under four-point bending. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 269-275 | 5.3 | 26 |
| 68 | 4D observations of rolling contact fatigue processes by laminography using ultra-bright synchrotron radiation. <i>Engineering Fracture Mechanics</i> , 2017 , 183, 180-189 | 4.2 | 7 |
| 67 | Effect of Induction Hardening on Fatigue Properties of Low Alloy Forged Steel with High Cleanliness in Very High Cycle Regime. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2017 , 66, 893-899 | 0.1 | 4 |
| 66 | Change of misorientation of individual grains in fatigue of polycrystalline alloys by diffraction contrast tomography using ultrabright synchrotron radiation. <i>Procedia Structural Integrity</i> , 2017 , 3, 402-410 | 1 | 2 |
| 65 | Evaluation of near-threshold fatigue crack propagation in harmonic-structured CP titanium with a bimodal grain size distribution. <i>Engineering Fracture Mechanics</i> , 2017 , 181, 77-86 | 4.2 | 27 |

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| 64 | Rolling Contact Fatigue Damage from Artificial Defects and Sulphide Inclusions in High Strength Steel. <i>Procedia Structural Integrity</i> , 2017 , 7, 468-475 | 1 | 8 |
| 63 | Effects of Gas Blow Velocity on the Surface Properties of Ti-6Al-4V Alloy Treated by Gas Blow IH Nitriding. <i>Materials Transactions</i> , 2017 , 58, 1155-1160 | 1.3 | 14 |
| 62 | Recent Trends of Fatigue Research. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2017 , 66, 535-541 | 0.1 | 3 |
| 61 | Japanese Sake Brewed from Rice by the Traditional Technique. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2017 , 66, 816-821 | 0.1 | |
| 60 | Formation of Hydroxyapatite Layer on Ti6Al4V ELI Alloy by Fine Particle Peening. <i>International Journal of Automation Technology</i> , 2017 , 11, 915-924 | 0.8 | 14 |
| 59 | EFFECT OF FINE PARTICLE PEENING USING HYDROXYAPATITE SHOT PARTICLES AND PLASMA SPRAYED HYDROXYAPATITE COATING ON FATIGUE PROPERTIES OF BETA TITANIUM ALLOY 2017 , | | 4 |
| 58 | Effects of Gas Blow Velocity on the Surface Properties of Ti-6Al-4V Alloy Treated by Gas Blow IH Nitriding. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2017 , 81, 288-293 | 0.4 | |
| 57 | Effect of Cr Diffused Layer Formed by AIH-FPP on Adhesion Strength of DLC Films. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2017 , 81, 352-357 | 0.4 | |
| 56 | Misorientation Measurement of Individual Grains in Fatigue of Polycrystalline Alloys by Diffraction Contrast Tomography Using Ultrabright Synchrotron Radiation. <i>Materials Science Forum</i> , 2016 , 879, 1355-1360 ² | 0.4 | |
| 55 | Low Temperature Nitriding of Commercially Pure Titanium with Harmonic Structure. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016 , 63, 731-738 | 0.2 | |
| 54 | Development of a New Surface Modification Process by Fine Particle Peening. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016 , 67, 8-11 | 0.1 | |
| 53 | Formation of the Hydroxyapatite Layer on Commercially Pure Titanium Using Fine Particle Peening 2016 , 1711-1715 | | |
| 52 | Effect of shot peening using ultra-fine particles on fatigue properties of 5056 aluminum alloy under rotating bending. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 652, 279-286 | 5.3 | 42 |
| 51 | Characterization of the hydroxyapatite layer formed by fine hydroxyapatite particle peening and its effect on the fatigue properties of commercially pure titanium under four-point bending. <i>Surface and Coatings Technology</i> , 2016 , 288, 196-202 | 4.4 | 32 |
| 50 | Effect of defect shape on rolling contact fatigue crack initiation and propagation in high strength steel. <i>International Journal of Fatigue</i> , 2016 , 92, 507-516 | 5 | 20 |
| 49 | Surface Modification of Carbon Steel by Atmospheric-Controlled IH-FPP Treatment Using Mixed Chromium and High-Speed Steel Particles. <i>Materials Transactions</i> , 2016 , 57, 1801-1806 | 1.3 | 8 |
| 48 | Formation of High-Performance Titanium Alloy with Harmonic Structure by Means of Powder Metallurgy. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2016 , 24, 45-48 | 0 | |
| 47 | Effect of Fine Particle Peening Using Hydroxyapatite Shot Particles on Fatigue Properties of Beta Titanium Alloy in Rotating Bending 2016 , 1723-1726 | | |

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| 46 | A review on fatigue fracture modes of structural metallic materials in very high cycle regime. <i>International Journal of Fatigue</i> , 2016 , 93, 339-351 | 5 | 50 |
| 45 | Effect of harmonic structure design with bimodal grain size distribution on near-threshold fatigue crack propagation in Ti-6Al-4V alloy. <i>International Journal of Fatigue</i> , 2016 , 92, 616-622 | 5 | 29 |
| 44 | Effects of inclusion size and orientation on rolling contact fatigue crack initiation observed by laminography using ultra-bright synchrotron radiation. <i>Procedia Structural Integrity</i> , 2016 , 2, 3117-3124 | 1 | 4 |
| 43 | Formation of nitrated layer using atmospheric-controlled IH-FPP and its effect on the fatigue properties of Ti-6Al-4V alloy under four-point bending. <i>Procedia Structural Integrity</i> , 2016 , 2, 3432-3438 | 1 | 10 |
| 42 | A probabilistic model on crack initiation modes of metallic materials in very high cycle fatigue. <i>Procedia Structural Integrity</i> , 2016 , 2, 1199-1206 | 1 | 4 |
| 41 | Interior-Induced Fracture Mechanism of High Cleanliness Spring Steel (JIS SWOSC-V) in Very High Cycle Regime. <i>Key Engineering Materials</i> , 2015 , 664, 209-218 | 0.4 | 3 |
| 40 | Statistical Duplex S-N Characteristics of Bulk Amorphous Alloy in Rotating Bending in Very High Cycle Regime. <i>Key Engineering Materials</i> , 2015 , 664, 295-304 | 0.4 | 4 |
| 39 | Evaluation of the Gas Nitriding of Fine Grained AISI 4135 Steel Treated with Fine Particle Peening and Its Effect on the Tribological Properties. <i>Materials Transactions</i> , 2015 , 56, 556-562 | 1.3 | 22 |
| 38 | Effect of Fine Particle Peening on Atmospheric Oxidation Behavior of Ti-6Al-4V Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 80, 114-120 | 0.4 | 10 |
| 37 | Low Temperature Nitriding of Commercially Pure Titanium with Harmonic Structure. <i>Materials Transactions</i> , 2015 , 56, 1807-1813 | 1.3 | 24 |
| 36 | A Study on Very High Cycle Fatigue Property of High Strength Steel for Particular Use as Medical Tablets Compressing Punches. <i>Key Engineering Materials</i> , 2015 , 664, 221-230 | 0.4 | 2 |
| 35 | Evaluation of Very High Cycle Fatigue Properties of Low Temperature Nitrated Ti-6Al-4V Alloy Using Ultrasonic Testing Technology. <i>Key Engineering Materials</i> , 2015 , 664, 118-127 | 0.4 | 14 |
| 34 | Evaluation of the Fatigue Properties of Ti-6Al-4V Alloy with Harmonic Structure in 4-Points Bending. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2015 , 64, 880-886 | 0.1 | 19 |
| 33 | A Study on Very High Cycle Fatigue Properties of Low Flammability Magnesium Alloy in Rotating Bending and Axial Loading. <i>Applied Mechanics and Materials</i> , 2015 , 782, 27-41 | 0.3 | 6 |
| 32 | Fractographical Investigation on Mechanism of Interior-Induced Fatigue Fracture of SUP7 Steel for Hot Formed Springs. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2015 , 64, 613-619 | 0.1 | 4 |
| 31 | Evaluation of near-threshold fatigue crack propagation in Ti-6Al-4V Alloy with harmonic structure created by Mechanical Milling and Spark Plasma Sintering. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9, | 0.9 | 6 |
| 30 | OS4-12 4D Observation of Crack Propagation Behavior under Rolling Contact Fatigue by Synchrotron Radiation Laminography(3D/4D image-based analyses and simulations 4, OS4 3D/4D image-based analyses and simulations, MEASUREMENT METHODS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on</i> | 0 | |
| 29 | Report on My Sabbatical Stay at Kaiserslautern, Germany. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2015 , 64, 501-502 | 0.1 | |

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| 28 | OS8-3 Evaluation of High Cycle Fatigue Damage for Austenitic Stainless Steel by Diffraction Contrast Tomography Using Ultra-bright Synchrotron Radiation(Fatigue monitoring,OS8 Fatigue and fracture mechanics,STRENGTH OF MATERIALS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics, Asian Conference on Experimental Mechanics, 2015, 2015.14, 123</i> | 0 | |
| 27 | OS8-13 Effects of Harmonic Structure and Grain Size on Fatigue Crack Propagation of Ti-6Al-4V Alloy(Fatigue crack propagation,OS8 Fatigue and fracture mechanics,STRENGTH OF MATERIALS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 123</i> | 0 | |
| 26 | Effects of Fine Particle Peening on Oxidation Behavior of Nickel–Titanium Shape Memory Alloy. <i>Materials Transactions, 2014, 55, 176-181</i> | 1.3 | 12 |
| 25 | Fatigue Limit Estimation of Aluminum Die-casting Alloy by Means of Brea Method. <i>Zairyo/Journal of the Society of Materials Science, Japan, 2014, 63, 844-849</i> | 0.1 | 7 |
| 24 | Development of Low Temperature Nitriding Process and its Effects on the 4-Points Bending Fatigue Properties of Commercially Pure Titanium. <i>Advanced Materials Research, 2014, 891-892, 656-661</i> | 0.5 | 14 |
| 23 | Increasing Surface Hardness of AISI 1045 Steel by AIH-FPP/Plasma Nitriding Treatment. <i>Materials Transactions, 2013, 54, 344-349</i> | 1.3 | 22 |
| 22 | Effects of FPP/Gas Nitriding Hybrid Surface Treatment on Fatigue Properties of Austenitic Stainless Steel (SUS316). <i>Zairyo/Journal of the Society of Materials Science, Japan, 2012, 61, 680-685</i> | 0.1 | 5 |
| 21 | Increasing Surface Hardness of S45C Steel by AIH-FPP/Gaseous Nitriding Treatment. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2012, 76, 422-428</i> | 0.4 | 10 |
| 20 | Effect of Fine Particle Peening on Oxidation Resistance of Austenitic Stainless Steel. <i>Journal of Solid Mechanics and Materials Engineering, 2012, 6, 431-439</i> | | 10 |
| 19 | OS17F094 Effect of Fine Particle Peening on Oxidation Resistance of Austenitic Stainless Steel. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS17F094--_OS17F094-</i> | 0 | |
| 18 | Plasma Nitriding Behavior of Pure Iron Pre-Treated with Fine Particle Peening. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 1367-1377</i> | | 3 |
| 17 | Effect of Shot Particle on the Mechanism of Creating a Modified Layer by Atmospheric Controlled IH-FPP Treatment. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 372-378</i> | 0.4 | 15 |
| 16 | Creation of Fine Grained-Layer and High Hardness-Layer Using IH-FPP Treatment System and Its Effect on the Fatigue Properties of Steel. <i>Zairyo/Journal of the Society of Materials Science, Japan, 2011, 60, 1091-1096</i> | 0.1 | 9 |
| 15 | Effect of Specimen Hardness and Shot Particle Hardness on Residual Stress and Fatigue Properties of SCM435H Steel Performed by Fine Particle Peening. <i>Zairyo/Journal of the Society of Materials Science, Japan, 2011, 60, 547-553</i> | 0.1 | 10 |
| 14 | OS17-1-2 Effect of Fine Particle Peening on Oxidation Resistance of Austenitic Stainless Steel. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS17-1-2-</i> | 0 | |
| 13 | ANALYSIS OF PNEUMATIC FINE PARTICLE PEENING PROCESS BY USING A HIGH-SPEED-CAMERA. <i>International Journal of Modern Physics B, 2010, 24, 3047-3052</i> | 1.1 | 19 |
| 12 | Effect of Hardness Ratio on Plastic Dissipation in Fine Particle Peening. <i>Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1585-1594</i> | | 5 |
| 11 | Development of an Atmospheric Controlled IH-FPP Treatment System and Its Application to Structural Steel. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 533-539</i> | 0.4 | 25 |

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| 10 | High Precision Grinding and Surface Modification of Ni-Ti Shape Memory Alloy Ground by a New Electrical Grinding Technique(M & M 2009 Conference). <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2010 , 76, 419-421 | | |
| 9 | Fatigue properties of gas nitrided austenitic stainless steel pre-treated with fine particle peening. <i>International Journal of Fatigue</i> , 2010 , 32, 403-410 | 5 | 68 |
| 8 | S0401-3-5 Effect of Fine Particle Peening on Oxidation Resistance of AISI 316 Stainless Steel. <i>The Proceedings of the JSME Annual Meeting</i> , 2010 , 2010.1, 325-326 | | |
| 7 | Effect of simultaneous surface modification process on wear resistance of martensitic stainless steel. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 6156-6160 | 5.3 | 17 |
| 6 | Wear Resistance of AISI316L Steel Modified by Pre-FPP Treated DLC Coating. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2009 , 3, 328-335 | | 18 |
| 5 | Microstructural Change Induced by Fine Particle Peening and Its Effect on Elemental Diffusion. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2008 , 2, 1330-1337 | | 16 |
| 4 | Effect of Fine Particle Peening Treatment prior to Nitriding on Fatigue Properties of AISI 4135 Steel. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2008 , 2, 1444-1450 | | 29 |
| 3 | Development of IH-FPP Processing System by Induction Heating and Surface Modification of S45C Steel. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2008 , 72, 347-352 | 0.4 | 22 |
| 2 | FATIGUE PROPERTIES OF HYBRID SURFACE MODIFIED SCM435H STEEL. <i>International Journal of Modern Physics B</i> , 2006 , 20, 3646-3651 | 1.1 | 4 |
| 1 | Stress Ratio Effect on Fatigue Crack Initiation Mechanism of Magnesium Alloy AZ31. <i>Materials Science Forum</i> , 1016, 1003-1008 | 0.4 | 1 |