

Kunio Hayakawa

List of Publications by Year in descending order

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times ranked

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Anisotropic Ductile Fracture Estimation of Diagonal Cracks in Flange-Shaped Parts. Minerals, Metals and Materials Series, 2021, , 227-238. | 0.4 | 0 |
| 2 | Application of Anisotropic Ductile Fracture Model for Prediction of Diagonal Cracks in Outer Rim of Flange-Shaped Parts. Journal of the Japan Society for Technology of Plasticity, 2021, 62, 31-36. | 0.3 | 0 |
| 3 | Experimental investigation of the effects of super-elasticity on the machinability of NiTi alloys. International Journal of Advanced Manufacturing Technology, 2021, 115, 581-593. | 3.0 | 4 |
| 4 | Effect of Cutting Speed on Shape Recovery of Work Material in Cutting Process of Super-Elastic NiTi Alloy. International Journal of Automation Technology, 2021, 15, 24-33. | 1.0 | 2 |
| 5 | Prevention of Hexavalent Chromium Formation by Iron-ion-added Electrolyte in Electrochemical Machining of Chromium-containing Steel. International Journal of Electrical Machining, 2021, 26, 9. | 0.5 | 1 |
| 6 | Milling of Sintered Carbide using Electrochemical Reaction. International Journal of Electrical Machining, 2021, 26, 16. | 0.5 | 1 |
| 7 | Evaluation of strength of stainless steel bolt without heat treatment considering Bauschinger effect during manufacturing process. Journal of Materials Processing Technology, 2020, 278, 116481. | 6.3 | 10 |
| 8 | Evaluation of the Mechanical and Electromagnetic Shielding Properties of Carbon Fiber Reinforced Thermoplastics Sheet Made of Unidirectional Tape. Materials Transactions, 2020, 61, 251-255. | 1.2 | 4 |
| 9 | Difficult Cutting Property of NiTi Alloy and Its Mechanism. Journal of Manufacturing and Materials Processing, 2020, 4, 124. | 2.2 | 3 |
| 10 | Electromagnetic shielding property of laminated carbon fiber tape reinforced thermoplastics. Polymer-Plastics Technology and Materials, 2020, 59, 1308-1316. | 1.3 | 1 |
| 11 | Experimental and Numerical Investigation of Residual Stresses in Incremental Forming. Materials Transactions, 2020, 61, 228-233. | 1.2 | 2 |
| 12 | Prevention of Hexavalent Chromium Formation by Iron-ion-added Electrolyte in Electrochemical Machining of Chromium-containing Steel. Denki Kako Gakkaishi, 2020, 54, 2. | 0.3 | 0 |
| 13 | Milling of sintered carbide using electrochemical reaction $i^{1/4}$ Measurement of cutting force and investigation of machining phenomena $i^{1/4}$; Denki Kako Gakkaishi, 2020, 54, 22. | 0.3 | 1 |
| 14 | Effects of Tool Surface Geometry on Temperature Distribution and Material Properties of an Aluminum Alloy in Friction Stir Welding. Materials Transactions, 2020, 61, 276-281. | 1.2 | 0 |
| 15 | Effect of Production Rate on Lubrication Performance of Environmentally-Friendly Lubricant in Combined Forward-Can and Backward-Can Cold Extrusion Test of Aluminum Alloy. Materials Transactions, 2020, 61, 289-294. | 1.2 | 1 |
| 16 | Effect of Cutting Temperature on Phase Transformation in Cutting of NiTi Alloy. , 2020, , . | | 0 |
| 17 | Prediction Method of Ductile Fracture in Cold Forging Using Anisotropic Ductile Fracture Criterion. Journal of the Japan Society for Technology of Plasticity, 2019, 60, 221-227. | 0.3 | 3 |
| 18 | Recovery of Sintered Carbide Material in Electrochemical Machining Process. Lecture Notes in Networks and Systems, 2019, , 11-19. | 0.7 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Finite Element Analysis of Hot Rolling Wear Test. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 728-734. | 0.4 | 2 |
| 20 | Cyclic simple shear test of material for cold forging. Procedia Manufacturing, 2018, 15, 1785-1791. | 1.9 | 2 |
| 21 | Evaluation of mechanical properties of randomly compression molded carbon fiber reinforced thermoplastic sheet made of unidirectional tape. Procedia Manufacturing, 2018, 15, 1708-1715. | 1.9 | 2 |
| 22 | Numerical analysis on effect of surface asperity of piston skirt on lubrication performance. Procedia Manufacturing, 2018, 15, 496-503. | 1.9 | 6 |
| 23 | Friction coefficients in cold forging: A global perspective. CIRP Annals - Manufacturing Technology, 2018, 67, 261-264. | 3.6 | 31 |
| 24 | Effect of Hardening Rule for Spring Back Behavior of Forging. Procedia Engineering, 2017, 207, 167-172. | 1.2 | 11 |
| 25 | A Joining Method of Shaft and Holed Part Using Plastic Deformation. Procedia Engineering, 2017, 207, 944-949. | 1.2 | 0 |
| 26 | Effect of Hardening Rule on Analysis of Forming and Strength of Multistage Cold Forged Bolt without Heat Treatment. Journal of the Japan Society for Technology of Plasticity, 2016, 57, 1070-1076. | 0.3 | 3 |
| 27 | Evaluation of Environmentally Friendly Lubricant for Aluminum Alloy Cold Forging. Journal of the Japan Society for Technology of Plasticity, 2016, 57, 473-478. | 0.3 | 1 |
| 28 | Workpiece-Tool Coupled Analysis on Bulk Forming Process. Journal of the Japan Society for Technology of Plasticity, 2016, 57, 90-94. | 0.3 | 0 |
| 29 | 409 Effect of Hardening Rule on Forming and Estimation of Strength of Multi-Step Cold Forged Bolt. The Proceedings of the Materials and Processing Conference, 2015, 2015.23, _409-1_-_409-5_. | 0.0 | 0 |
| 30 | Influence of Flow Stress on Lubricating Ability of Environmentally-Friendly Lubricant for Aluminum Alloy Cold Forging. Advanced Materials Research, 2014, 966-967, 301-310. | 0.3 | 5 |
| 31 | An analysis of relationship between contact resistance and fracture of oxide film for connector contacts using finite element method. , 2014, , . | | 8 |
| 32 | Electro-thermo-mechanical Finite Element Analysis on DC Pulse Resistance Pressure Sintering Process of Zirconia Part. Procedia Engineering, 2014, 81, 2421-2426. | 1.2 | 5 |
| 33 | Evaluation of environmentally friendly lubricant for aluminum cold forging using friction test based on spline extrusion. Journal of Manufacturing Processes, 2013, 15, 96-101. | 5.9 | 27 |
| 34 | Shaping of Internal Helical Gear by Two-Step Cold Extrusion. Journal of the Japan Society for Technology of Plasticity, 2013, 54, 64-68. | 0.3 | 3 |
| 35 | Cold Extrusion of Spur Gear with Inner Spline with Reduction in Outer Diameter or Expansion of Inner Diameter of Workpiece. Journal of the Japan Society for Technology of Plasticity, 2013, 54, 262-266. | 0.3 | 0 |
| 36 | Cold Extrusion of Spur Gear with Inner Spline. Journal of the Japan Society for Technology of Plasticity, 2013, 54, 69-73. | 0.3 | 0 |

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|----|---|-----|-----------|
| 37 | Cold Extrusion of External Gear Having Borethrough Expansion of Inner Diameter. Journal of the Japan Society for Technology of Plasticity, 2012, 53, 140-144. | 0.3 | 0 |
| 38 | 1003 Sintering of thin-walled cylindrical can made from zirconia powder by SPS process. The Proceedings of the Materials and Processing Conference, 2012, 2012.20, _1003-1_-_1003-5_. | 0.0 | 1 |
| 39 | 913 Deep drawing of Carbon Fiber Reinforced Thermoplastics and Its Numerical Analysis. The Proceedings of the Materials and Processing Conference, 2012, 2012.20, _913-1_-_913-5_. | 0.0 | 0 |
| 40 | Shaping of Gear by Cold Extrusion Using Double Cylindrically Layered Workpiece Consisting of Different Materials. Journal of the Japan Society for Technology of Plasticity, 2012, 53, 929-933. | 0.3 | 0 |
| 41 | Finite Element Analysis on Interfacial Stress of Scratch Test. Journal of the Japan Society for Technology of Plasticity, 2011, 52, 1181-1186. | 0.3 | 1 |
| 42 | Effect of Anisotropic Property of Plastic-Strain-Dependent Young's Modulus of Stainless Steel Sheet on Analytical Accuracy of Springback. Journal of the Japan Society for Technology of Plasticity, 2011, 52, 1187-1192. | 0.3 | 0 |
| 43 | Elastic-plastic Behavior of WC-Co Cemented Carbide Used for Forging Tool Considering Anisotropic Damage and Stress Unilaterality. International Journal of Damage Mechanics, 2010, 19, 421-439. | 4.2 | 7 |
| 44 | 708 Residual Stress Analysis of Carburized Gear by Elastoplastic Finite Element Method. The Proceedings of Conference of Tokai Branch, 2010, 2010.59, 411-412. | 0.0 | 0 |
| 45 | Finite Element Analysis on Roller-straightening Process of Equal Leg Angles. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2009, 95, 773-779. | 0.4 | 3 |
| 46 | Residual Stress In Sheet Metal Parts Made By Incremental Forming Process. AIP Conference Proceedings, 2007, , . | 0.4 | 37 |
| 47 | Elastic-Plastic Constitutive Equation of WC-Co Cemented Carbides with Anisotropic Damage. AIP Conference Proceedings, 2007, , . | 0.4 | 0 |
| 48 | Finite Element Analysis of V-Bending of Polypropylene Using Hydrostatic-Pressure Dependent Plastic Constitutive Equation. Key Engineering Materials, 2007, 340-341, 1103-1108. | 0.4 | 1 |
| 49 | Finite Element Analysis of V-Bending of Polypropylene Using Hydrostatic-Pressure-Dependent Plastic Constitutive Equation. Materials Transactions, 2007, 48, 2659-2664. | 1.2 | 0 |
| 50 | Effects of process conditions on Young's modulus and strength of extrudate in short-fiber-reinforced polypropylene. Polymer Composites, 2007, 28, 29-35. | 4.6 | 4 |
| 51 | Comparison of Lubrication Performance by Different Friction Testing Methods Based on Combined Extrusion-Type Forging Process. Journal of the Japan Society for Technology of Plasticity, 2007, 48, 56-60. | 0.3 | 3 |
| 52 | Net Shape Forming of Dental Prosthetic Crown by DC Pulse Resistance Sintering Process of Titanium Powder Metal. Journal of the Japan Society for Technology of Plasticity, 2007, 48, 561-565. | 0.3 | 1 |
| 53 | Fractal Property of Acoustic Emission of Cold Forward Extrusion Die in Practical Manufacturing-Scale Experiment Using Bolt Part Former. Journal of the Japan Society for Technology of Plasticity, 2006, 47, 606-610. | 0.3 | 0 |
| 54 | Effect of Process Conditions on Young's Modulus and Strength of Extrudate in Short-Fiber-Reinforced Polypropylene. Seikei-Kakou, 2006, 18, 293-299. | 0.0 | 3 |

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|----|--|-----|-----------|
| 55 | Formulation of Anisotropic Elastic Constitutive Equation for Drawn Polymers Based on Rational Continuum Mechanics. <i>Seikei-Kakou</i> , 2006, 18, 300-305. | 0.0 | 0 |
| 56 | Bonding Characteristics of Various Metals by DC Pulse Resistance Heat Pressure Welding. <i>Materials Transactions</i> , 2005, 46, 292-297. | 1.2 | 19 |
| 57 | Analysis of Interfacial Damage and Debonding Life Estimation of Cold Forging Tool Coated with Hard Film. <i>Materials Transactions</i> , 2004, 45, 2832-2837. | 1.2 | 4 |
| 58 | Detection of Damage and Fracture of Forging Die by Fractal Property of Acoustic Emission. <i>Materials Transactions</i> , 2004, 45, 3136-3141. | 1.2 | 7 |
| 59 | Analysis of Fatigue Crack Initiation and Propagation in Cold Forging Tools by Local Approach of Fracture. <i>Materials Transactions</i> , 2004, 45, 461-468. | 1.2 | 7 |
| 60 | Modification of Isotropic Hardening Model and Application of Kinematic Hardening Model to Constitutive Equation for Plastic Behavior of Hydrostatic-Pressure-Dependent Polymers. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2004, 53, 143-149. | 0.2 | 9 |
| 61 | Pressure Sintering Characteristics with Chemical Reaction between Dissimilar Metal Powders by DC Pulse Resistance-Sintering Process.. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2001, 67, 2692-2699. | 0.2 | 1 |
| 62 | A Study of the Lubrication Behavior of Solid Lubricants in the Upsetting Process. <i>Journal of Tribology</i> , 2000, 122, 803-808. | 1.9 | 20 |
| 63 | Damage Evolution and Damage Surface of Elastic-Plastic-Damage Materials under Multiaxial Loading. <i>International Journal of Damage Mechanics</i> , 1998, 7, 103-128. | 4.2 | 37 |
| 64 | Thermodynamical Modeling of Elastic-Plastic Damage and Experimental Validation of Damage Potential. <i>International Journal of Damage Mechanics</i> , 1997, 6, 333-363. | 4.2 | 128 |
| 65 | Constitutive and damage evolution equations of elastic-brittle materials based on irreversible thermodynamics. <i>International Journal of Mechanical Sciences</i> , 1997, 39, 473-486. | 6.7 | 225 |
| 66 | Constitutive and Damage Evolution Equations for Elastic-Plastic-Damaging Materials Based on Thermodynamics Theory.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 1996, 45, 176-182. | 0.2 | 2 |
| 67 | Mathematical Description of Anisotropic Damage State in Continuum Damage Mechanics.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1994, 60, 2750-2758. | 0.2 | 1 |
| 68 | Mesh Dependence and Stress Singularity in Local Approach to Creep-Crack Growth Analysis.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1993, 59, 1811-1818. | 0.2 | 7 |
| 69 | Irreversible Thermodynamic Theory for Constitutive and Damage Evolution Equations of Elastic-Brittle Materials.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1993, 59, 1917-1924. | 0.2 | 0 |
| 70 | Effect of Workpiece Surface Topography on Friction in Cold Forging Using Environmentally-Friendly Lubricant. <i>Key Engineering Materials</i> , 0, 767, 157-162. | 0.4 | 3 |
| 71 | Influence of Tool pin Profiles in Friction Stir Welding of Aluminum Alloy and Polycarbonate. <i>Defect and Diffusion Forum</i> , 0, 414, 185-190. | 0.4 | 0 |
| 72 | Temperature Dependency of Friction of Titanium Alloy by Forward Rod-Backward can Combined Extrusion Test. <i>Defect and Diffusion Forum</i> , 0, 414, 163-168. | 0.4 | 0 |