

Ryo Matsumoto

List of Publications by Citations

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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.

104
papers

533
citations

13
h-index

18
g-index

107
ext. papers

602
ext. citations

2.1
avg. IF

4.13
L-index

#	Paper	IF	Citations
104	Fabrication of aluminium foams from powder by hot extrusion and foaming. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1203-1208	5.3	34
103	Shape accuracy in the forming of deep holes with retreat and advance pulse ram motion on a servo press. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 770-778	5.3	30
102	Fabrication of skin layer on aluminum foam surface by friction stir incremental forming and its mechanical properties. <i>Journal of Materials Processing Technology</i> , 2015 , 218, 23-31	5.3	25
101	Development of Warm Forging Method for Magnesium Alloy. <i>Materials Transactions</i> , 2004 , 45, 2838-2844	4.3	25
100	Forgeability and Flow Stress of Mg-Zn-Y Alloys with Long Period Stacking Ordered Structure at Elevated Temperatures. <i>Materials Transactions</i> , 2009 , 50, 841-846	1.3	24
99	Formation mechanism of surface scale defects in hot rolling process. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 261-264	4.9	22
98	Experimental and numerical analysis of friction in high aspect ratio combined forward-backward extrusion with retreat and advance pulse ram motion on a servo press. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 936-944	5.3	21
97	Reduction of friction of steel covered with oxide scale in hot forging. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 651-659	5.3	21
96	Deformation Processes of Porous Metals and Metallic Foams (Review) 2014 , 4, 245-249		18
95	Application of mixture rule to finite element analysis for forging of cast Mg ₉₆ Zn ₂ Y ₂ alloys with long period stacking ordered structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 548, 75-82	5.3	17
94	Forging induces changes in the formability and microstructure of extruded Mg ₉₆ Zn ₂ Y ₂ alloy with a long-period stacking order phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 563, 21-27	5.3	14
93	Filling of surface pores of aluminum foam with polyamide by selective laser melting for improvement in mechanical properties. <i>Journal of Materials Processing Technology</i> , 2016 , 237, 402-408	5.3	13
92	Cold piercing of magnesium alloy billet with high aspect ratio. <i>International Journal of Machine Tools and Manufacture</i> , 2006 , 46, 459-466	9.4	13
91	Ductility improvement methods for commercial AZ31B magnesium alloy in cold forging. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, 1275-1281	3.3	12
90	Ductility of a magnesium alloy in warm forging with controlled forming speed using a CNC servo press. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 2029-2035	5.3	12
89	Reduction in axial forging load by low-frequency torsional oscillation in cold upsetting. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 933-943	3.2	10
88	Finite Element Analysis of Plastic Instability Phenomenon in Cold Rolling of Clad Sheets. <i>Procedia Engineering</i> , 2017 , 184, 306-312		9

87	Metal–Metal Joining by Unusual Wetting on Surface Fine Crevice Structure Formed by Laser Treatment. <i>Materials Transactions</i> , 2015 , 56, 1852-1856	1.3	9
86	Cold Backward Extrusion of Titanium Billet with Pulsating Lubricant Supply on Servo Press. <i>Key Engineering Materials</i> , 2012 , 504-506, 381-386	0.4	9
85	Residual Stress Distribution through Thickness in Cold-Rolled Aluminum Sheet. <i>Key Engineering Materials</i> , 2014 , 622-623, 1000-1007	0.4	8
84	Joining of Copper Plates by Unusual Wetting with Liquid Tin and Tin–Lead Solder on Surface Fine Crevice Structure— <i>Materials Transactions</i> , 2016 , 57, 973-977	1.3	8
83	Plastic joining of open-cell nickel foam and polymethyl methacrylate (PMMA) sheet by friction stir incremental forming. <i>Journal of Materials Processing Technology</i> , 2020 , 282, 116691	5.3	8
82	Formation of skin surface layer on aluminum foam by friction stir powder incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 1853-1861	3.2	7
81	Deformation and Density Change of Open-Cell Nickel Foam in Compression Test. <i>Materials Transactions</i> , 2017 , 58, 1373-1378	1.3	7
80	Die quenching limit of AA2024 aluminum alloy billet on servo press. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 2514-2521	5.3	7
79	Influence of the press ram motion on the joining characteristics during indentation plastic joining using a servo press. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 1995-2001	5.3	7
78	Wear Resistance Improvement of Titanium Bearings by Laser Gas Nitriding. <i>Advanced Materials Research</i> , 2011 , 418-420, 1629-1634	0.5	7
77	Mechanism of the Unusual Wetting of a Surface Fine Crevice Structure Created by Laser Irradiation. <i>Materials Transactions</i> , 2017 , 58, 1227-1230	1.3	7
76	Morphology of Edge Cracks of Rolled Magnesium Alloy Sheet. <i>Advanced Materials Research</i> , 2014 , 922, 469-474	0.5	6
75	Improvement of Forgeability of a Commercial AZ31B Magnesium Alloy in Cold Backward Extrusion with Counter Pressure. <i>Materials Transactions</i> , 2008 , 49, 1000-1005	1.3	6
74	Measurement of Friction in Cold Upsetting with Mist Lubrication. <i>Materials Transactions</i> , 2004 , 45, 2891-2896	1.3	6
73	Wettability of Liquid Bi, In and Sn on Surface Fine Crevice Structure of Laser-Irradiated Solid Iron Substrate. <i>Journal of Smart Processing</i> , 2016 , 5, 153-158	0.2	6
72	Mechanism of oxide scale to decrease friction in hot steel rolling. <i>Procedia Manufacturing</i> , 2018 , 15, 46-51	1.5	6
71	Characterization of surface profile of shot peened cemented tungsten carbide dies with micro valleys and their lubrication performance in cold forging. <i>Procedia Engineering</i> , 2017 , 207, 1135-1140		5
70	Improvement of Forming Limit and Accuracy in Friction Stir Incremental Forming with Multistage Forming. <i>Procedia Engineering</i> , 2017 , 207, 807-812		5

69	Friction and Adhesion in Dry Warm Forging of Magnesium Alloy with Coated Tools. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2007 , 1, 397-405		5
68	Experimental Study of Roll Flattening in Cold Rolling Process. <i>ISIJ International</i> , 2018 , 58, 714-720	1.7	4
67	Identification of Friction Coefficient in High Aspect Ratio Combined Forward-backward Extrusion with Pulse Ram Motion on Servo Press. <i>Procedia Engineering</i> , 2014 , 81, 1854-1859		4
66	Influence of Oxide Scale Formed on Chrome Steel Surface in Steam Atmosphere on Deformation Behavior of Chrome Steel in Hot Ring Compression. <i>ISIJ International</i> , 2015 , 55, 1711-1720	1.7	4
65	Die motion control for die-quench forging process of AA6061 aluminum alloys. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 297-300	4.9	4
64	Strength and electrical conductivity of Cu-Al alloy sheets by cryogenic high-speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 139815	5.3	4
63	Necking condition of layers in clad sheets during rolling. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 317-320	4.9	4
62	Selective Laser Melting on Aluminum Foam Surface and Mechanical Properties of Fabricated Aluminum Foam with Nonporous Surface Layer. <i>Key Engineering Materials</i> , 2015 , 651-653, 671-676	0.4	3
61	Filling of Surface Pores on Aluminum Foam with Aluminum Powder by Selective Laser Melting. <i>Key Engineering Materials</i> , 2014 , 622-623, 861-867	0.4	3
60	Punch Wear in the Forming of Deep Holes with Pulse Ram Motion on a Servo Press. <i>Key Engineering Materials</i> , 2014 , 611-612, 127-133	0.4	3
59	Feasibility Study on Die Quenching of AA2024 Aluminum Alloy Billet Using Servo Press. <i>Advanced Materials Research</i> , 2014 , 922, 286-291	0.5	3
58	Cold Piercing of Cylindrical Aluminum Billet with Counter Punch Pressure. <i>Key Engineering Materials</i> , 2013 , 554-557, 613-619	0.4	3
57	Effect of heat treatment on forgeability of AZ31 magnesium alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2007 , 57, 274-279	0.3	3
56	Forming accuracy improvement by double-side incremental forming. <i>Procedia Manufacturing</i> , 2018 , 15, 1177-1183	1.5	3
55	Friction Stir Incremental Forming of Preformed Sheets with Improving Bending Stiffness. <i>Procedia Engineering</i> , 2017 , 183, 131-136		2
54	Contact resistance between roll and titanium sheet during cold rolling. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 305-308	4.9	2
53	Flattening of Surface Grooves in Cold Flat Rolling. <i>Procedia Engineering</i> , 2014 , 81, 155-160		2
52	Two-Step Die Motion for Die Quenching of AA2024 Aluminum Alloy Billet on Servo Press. <i>Materials Transactions</i> , 2014 , 55, 818-826	1.3	2

51	Lubrication using porous surface layer for cold drawing of steel wire. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 235-238	4.9	2
50	Formation of roll coating in cold rolling of titanium sheets. <i>Procedia Engineering</i> , 2017 , 207, 1367-1372		2
49	Curling of Sheet in Asymmetric Rolling Investigated by Profile Measurement of Partly Rolled Sheet. <i>ISIJ International</i> , 2019 , 59, 489-495	1.7	2
48	Indentation Joining Process for Steel Bar ^ ndash; Aluminium Plate. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2009 , 50, 550-554	0.3	2
47	Enhancement of Forging Limit by Using Servo Press. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2017 , 58, 187-191	0.3	2
46	Reduction in Axial Extrusion Load by Torsional Oscillation in Cold Backward Cup Extrusion. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2019 , 60, 235-240	0.3	2
45	Deformation Twinning and Change in Mechanical Properties of Cu-15at%Al in Multi-Pass Cold Rolling. <i>Materials Science Forum</i> , 2018 , 941, 1523-1528	0.4	2
44	Prediction of Deformation Behavior of Metallic Foams Using a Yield Criterion for Compressible Materials. <i>Materials Transactions</i> , 2018 , 59, 1892-1897	1.3	2
43	Microstructural evolution of a Ti-6Al-4V alloy produced by forging process combined with torsional motion. <i>Journal of Manufacturing Processes</i> , 2020 , 58, 1161-1170	5	1
42	Indentation plastic joining of steel rod and polycarbonate plate. <i>Journal of Materials Processing Technology</i> , 2020 , 283, 116719	5.3	1
41	Development of Friction Stir Incremental Forming Process Using Penetrating Tool. <i>Procedia Engineering</i> , 2017 , 207, 789-794		1
40	Determination of flow stress equation of AlMg alloy for sheet metal forming analysis. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2015 , 65, 568-572	0.3	1
39	Friction in Hot Forging of Chrome Steel Covered with Oxide Scale Film Generated at Steam Atmosphere. <i>Key Engineering Materials</i> , 2014 , 622-623, 194-200	0.4	1
38	Microstructure of Oxide Scale on Hot-Rolled Iron. <i>Advanced Materials Research</i> , 2014 , 922, 242-247	0.5	1
37	Beyond metal forming limit of aluminum alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2013 , 63, 329-336	0.3	1
36	Coating of Ti64 Bearings in Air by Using a Q-Sw Laser. <i>Applied Mechanics and Materials</i> , 2012 , 152-154, 1239-1243	0.3	1
35	Development of Plastic Flow Joining Method Using Indentation of Aluminum Bar to Aluminum Plate. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2009 , 3, 1223-1232		1
34	Influence of Thermal Conductivity of Die Material on Hot Forging Characteristics. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2013 , 54, 363-367	0.3	1

33	Development of Penetrating Tool Friction Stir Incremental Forming. <i>Materials Transactions</i> , 2019 , 60, 2416-2425	1.3	1
32	Thickness increase of skin layer on aluminum foam surface and compressive strength by combination of friction stir incremental forming and incremental hammering. <i>Keikin-zoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 419-425	0.3	1
31	Peripheral speed of steel ring during hot ring rolling. <i>Procedia Manufacturing</i> , 2018 , 15, 89-96	1.5	1
30	Enhancement of plastic flow in lateral direction by torsional oscillation in upsetting and lateral extrusion. <i>Journal of Materials Processing Technology</i> , 2022 , 299, 117369	5.3	1
29	Finite element analysis of shape accuracy of billet cold-forged with stepwise ram motion. <i>Mechanical Engineering Journal</i> , 2019 , 6, 18-00523-18-00523	0.5	0
28	Evaluation of r-value of steels using Vickers hardness test. <i>Journal of Physics: Conference Series</i> , 2012 , 379, 012045	0.3	0
27	Cold Forging of Commercial AZ31B Magnesium Alloy. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2015 , 50, 914-918	0.3	0
26	Curling of hot-rolled steel sheet caused by surface oxide scale. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 265-268	4.9	
25	Advanced Materials Design with Forming 2013 , 3-14		
24	Metal-Metal Joining by Unusual Wetting on Surface Fine Crevasse Structure Formed by Laser Treatment. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 23-28	0.4	
23	Characteristics of Surface Profile of Cemented Tungsten Carbide Dies after Shot Peening and Their Lubrication Performance in Cold Ring Compression. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2015 , 56, 793-797	0.3	
22	Microstructural Evolution of AA5052 Alloy Sheets in High-Speed Rolling. <i>Advanced Materials Research</i> , 2014 , 922, 344-349	0.5	
21	Rolling Contact Fatigue of Titanium Alloys Coated by Gas Nitriding Using a Q-Sw Laser. <i>Applied Mechanics and Materials</i> , 2011 , 83, 191-196	0.3	
20	Coating of Ti64 Bearings in Air by Using a Q-Sw Laser. <i>Advanced Materials Research</i> , 2011 , 418-420, 393-397		
19	Comparison between the RCF Performance of TiN- and TiO ₂ -Laser Coated Ti64 Bearings. <i>Advanced Materials Research</i> , 2012 , 566, 308-312	0.5	
18	Development of Rotational Incremental Hammering Process for Porous Metals. <i>Minerals, Metals and Materials Series</i> , 2020 , 27-35	0.3	
17	C-10 FRICTION AND ADHESION IN DRY WARM FORGING OF MAGNESIUM ALLOY WITH COATED TOOLS(Session: Forming II). <i>The Proceedings of the Asian Symposium on Materials and Processing</i> , 2006 , 2006, 57		
16	Improvement of Forming Limit in Height with Alternating Tool Path in Penetrating Tool Friction Stir Incremental Forming. <i>Materials Transactions</i> , 2020 , 61, 1000-1007	1.3	

15	728 Friction Stir Incremental Forming of Aluminum Alloy Sheets using Die. <i>The Proceedings of the Materials and Processing Conference</i> , 2015 , 2015.23, _728-1_-_728-4_	0
14	102 Thickness Increase of Skin Layer on Aluminum Foam Surface by Friction Stir Incremental Forming and Incremental Hammering. <i>The Proceedings of the Materials and Processing Conference</i> , 2015 , 2015.23, _102-1_-_102-3_	0
13	926 Dimensional Accuracy of Formed Hole in Forming using Punch with Internal Channel for Lubricant on Servo Press. <i>The Proceedings of the Materials and Processing Conference</i> , 2012 , 2012.20, _926-1_-_926-4_	0
12	315 Fabrication of Solid Skin on ALPORAS by Friction Stir Incremental Forming. <i>The Proceedings of the Materials and Processing Conference</i> , 2012 , 2012.20, _315-1_-_315-4_	0
11	Dry and Semi-Dry Forging. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2013 , 54, 210-214	0.3
10	G041021 Mechanical Properties of Aluminum Foam with Nonporous Surface Layer Formed by Friction Stir Incremental Forming. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2013 , 2013, _G041021-1-_G041021-3	0
9	J0320402 Fabrication of Nonporous Layer on Surface of Aluminum Foam by Selective Laser Melting. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _J0320402--_J0320402- ⁰	0
8	Indentation Joining with Oscillation Using Servo Press. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2014 , 83, 195-198	0.1
7	Formation of NiAl Intermetallic Compound from Powder Mixture of Nickel and Aluminum by Laser Irradiation. <i>Materials Transactions</i> , 2021 , 62, 512-518	1.3
6	Surface Quality of Extruded Sidewall in Cold Backward Cup Extrusion with Low-Frequency Torsional Oscillation. <i>Minerals, Metals and Materials Series</i> , 2021 , 217-225	0.3
5	Lubrication in Hot Forging with Pulsed Ram Motion. <i>Key Engineering Materials</i> , 2018 , 767, 149-156	0.4
4	Influence of uneven interface between steel and oxide scale on deformation behavior of oxide scale in hot ring compression. <i>Procedia Manufacturing</i> , 2018 , 15, 349-355	1.5
3	Nano Precipitation and Hardening of Die-Quenched 6061 Aluminum Alloy. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 2200-2202	1.3
2	Temperature Increase during Isothermal Forging of Ti-5Al-2Sn-2Zr-4Cr-4Mo Alloy Using a 1500-Ton Forging Press. <i>Materials Science Forum</i> , 1016, 702-707	0.4
1	Friction Stir Powder Incremental Forming for Fabrication of Sandwich-Structured Composite of Open-Cell Nickel Foam with Aluminum. <i>Defect and Diffusion Forum</i> , 414, 179-184	0.7