

Yuuji Kimura

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.

68 papers	1,356 citations	20 h-index	36 g-index
78 ext. papers	1,517 ext. citations	2.3 avg, IF	4.52 L-index

#	Paper	IF	Citations
68	Preferable Resistance against Hydrogen Embrittlement of Pearlitic Steel Deformed by Caliber Rolling. <i>ISIJ International</i> , 2022 , 62, 368-376	1.7	0
67	Preface to the Special Issue on Lamellar Structure in Structural Metallic Material and Its Mechanical Property <i>ISIJ International</i> , 2022 , 62, 281-281	1.7	
66	Influence of Thermomechanical Treatment on Delayed Fracture Property of Mo-Bearing Medium-Carbon Steel. <i>ISIJ International</i> , 2022 , 62, 377-388	1.7	
65	Hydrogen-Related Fracture Behavior under Constant Loading Tensile Test in As-Quenched Low-Carbon Martensitic Steel. <i>Metals</i> , 2022 , 12, 440	2.3	0
64	Grain-to-Grain Interaction Effect in Polycrystalline Plain Low-Carbon Steel within Elastic Deformation Region. <i>Materials</i> , 2021 , 14,	3.5	1
63	Upsizing high-strength fail-safe steel through warm tempforming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141514	5.3	3
62	Effects of Grain Boundary Geometry and Boron Addition on the Local Mechanical Behavior of Interstitial-Free (IF) Steels. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021 , 85, 30-39	0.4	2
61	Bainite Transformation and Resultant Tensile Properties of 0.6%C Low Alloyed Steels with Different Prior Austenite Grain Sizes. <i>ISIJ International</i> , 2021 , 61, 582-590	1.7	3
60	Effects of Grain Boundary Geometry and Boron Addition on the Local Mechanical Behavior of Interstitial-Free (IF) Steels. <i>Materials Transactions</i> , 2021 , 62, 1479-1488	1.3	2
59	Mechanical Property of Ultrafine Elongated Grain Structure Steel Processed by Warm Tempforming and Its Application to Ultra-High-Strength Bolt. <i>ISIJ International</i> , 2020 , 60, 1108-1126	1.7	8
58	Heterogeneous Distribution of Microstrain Evolved During Tensile Deformation of Polycrystalline Plain Low Carbon Steel. <i>Metals</i> , 2020 , 10, 774	2.3	3
57	Mechanical Property of Ultrafine Elongated Grain Structure Steel Processed by Warm Tempforming and Its Application to Ultra-High-Strength Bolt. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019 , 105, 127-145	0.5	2
56	Improvement of toughness and strength balance in low-carbon steel bars with cube texture processed by warm bi-axial rolling. <i>Materials Letters</i> , 2019 , 240, 172-175	3.3	3
55	Delayed fracture properties of 1.8 GPa-class ultra-high strength fail-safe bolt. <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 17-00493-17-00493	0.2	4
54	Improvement of strength, toughness and ductility properties in carbon steel. <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 18-00237-18-00237	0.2	
53	Warm tempforming effect on the hydrogen embrittlement of 1.8-GPa-class ultra-high-strength low-alloy steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 503-512	5.3	14
52	Tensile Properties of Fail-Safe Bolt with an Ultrafine Elongated Grain Structure. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2017 , 2017, OS1622	0	

51	Criterion of micro-crack initiation in 1800 MPa class fail-safe steel (Development of fracture control from microstructure design). <i>Transactions of the JSME (in Japanese)</i> , 2016 , 82, 16-00246-16-00246	0.2	4
50	Delamination toughening assisted by phosphorus in medium-carbon low-alloy steels with ultrafine elongated grain structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 135-145	5.3	19
49	Combined Effect of Ausforming and Warm Tempforming on the Strength and Toughness of An Ultra-High Strength Steel. <i>ISIJ International</i> , 2016 , 56, 2047-2056	1.7	7
48	Morphology, crystallography, and crack paths of tempered lath martensite in a medium-carbon low-alloy steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 48-57	5.3	34
47	Mechanism of crack propagation in 1800 MPa class ultrahigh-strength steel by ultrafine-grained structure (Development of fracture control from microstructure design). <i>Transactions of the JSME (in Japanese)</i> , 2015 , 81, 15-00281-15-00281	0.2	8
46	Strength-toughness balance of low-alloy steel by fail-safe design. <i>Mechanical Engineering Letters</i> , 2015 , 1, 15-00358-15-00358	0.5	4
45	Influence of Prior-Austenite Grain Structure on the Mechanical Properties of Ultrafine Elongated Grain Structure Steel Processed by Warm Tempforming. <i>ISIJ International</i> , 2015 , 55, 1762-1771	1.7	10
44	Influence of Carbon Content on Toughening in Ultrafine Elongated Grain Structure Steels. <i>ISIJ International</i> , 2015 , 55, 1135-1144	1.7	18
43	Influence of Carbon Content on Toughening in Ultrafine Elongated Grain Structure Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2014 , 100, 1104-1113	0.5	5
42	Effect of initial notch orientation on fracture toughness in fail-safe steel. <i>Journal of Materials Science</i> , 2013 , 48, 4766-4772	4.3	18
41	Influence of Warm Tempforming on Microstructure and Mechanical Properties in an Ultrahigh-Strength Medium-Carbon Low-Alloy Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 560-576	2.3	35
40	Tempforming in medium-carbon low-alloy steel. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S538-S542	5.7	17
39	Studies of Evaluation of Hydrogen Embrittlement Property of High-Strength Steels with Consideration of the Effect of Atmospheric Corrosion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1290-1300	2.3	32
38	Toughening by the addition of phosphorus to a high-strength steel with ultrafine elongated grain structure. <i>Philosophical Magazine Letters</i> , 2013 , 93, 109-115	1	3
37	Toughening of Low-Carbon Steel by Ultrafine-Grained Structure. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013 , 79, 1226-1238		7
36	OS0921 Toughening by addition of phosphorous to a 1200 MPa class Cr-Mo steel with ultrafine elongated structure. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2013 , 2013, _OS0921-1_ _OS0921-2_		
35	OS0920 Strengthening and Toughening of Fail-safe Materials : 2^ Report, Strength - Impact toughness balance of a 1800 MPa class low-alloy steel. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2013 , 2013, _OS0920-1_ _OS0920-3_	0	
34	Hydrogen Embrittlement of a 1500-MPa Tensile Strength Level Steel with an Ultrafine Elongated Grain Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1670-1687	2.3	47

33	Enhancement of Upper Shelf Energy through Delamination Fracture in 0.05 pct P Doped High-Strength Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 2453-2465	2.3	25
32	Shape effect of ultrafine-grained structure on static fracture toughness in low-alloy steel. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 035005	7.1	21
31	Static fracture toughness of fail-safe steel. <i>Scripta Materialia</i> , 2011 , 65, 552-555	5.6	20
30	Submicrocrystalline Structures and Tensile Behaviour of Stainless Steels Subjected to Large Strain Deformation and Subsequent Annealing. <i>Advanced Materials Research</i> , 2011 , 409, 607-612	0.5	2
29	Role of Delamination Fracture for Enhanced Impact Toughness in 0.05 %P Doped High Strength Steel with Ultrafine Elongated Grain Structure. <i>Advanced Materials Research</i> , 2011 , 409, 231-236	0.5	1
28	Effect of Deformation Mode on Texture of Ultrafine-Grained Low Carbon Steel Processed by Warm Caliber Rolling. <i>Materials Science Forum</i> , 2010 , 638-642, 2793-2798	0.4	1
27	Recrystallization Mechanisms in Severely Deformed Dual-Phase Stainless Steel. <i>Materials Science Forum</i> , 2010 , 638-642, 1905-1910	0.4	7
26	Delamination Effect on Impact Properties of Ultrafine-Grained Low-Carbon Steel Processed by Warm Caliber Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 341-355	2.3	113
25	Delamination Toughening of Ultrafine Grain Structure Steels Processed through Tempforming at Elevated Temperatures. <i>ISIJ International</i> , 2010 , 50, 152-161	1.7	65
24	Enhancement of Impact Toughness of 0.05% P Doped High Strength Steel through Formation of an Ultrafine Elongated Grain Structure. <i>ISIJ International</i> , 2010 , 50, 1660-1665	1.7	7
23	1104 Impact Properties of Low-Carbon Steel with Ultrafine Elongated Grain Structure. <i>The Proceedings of the Computational Mechanics Conference</i> , 2010 , 2010.23, 125-126	0	
22	Inverse temperature dependence of toughness in an ultrafine grain-structure steel. <i>Science</i> , 2008 , 320, 1057-60	33.3	268
21	Regularities of Deformation Microstructures in Ferritic Stainless Steels during Large Strain Cold Working. <i>ISIJ International</i> , 2008 , 48, 1071-1079	1.7	19
20	157 Improvement in Impact Toughness of a 1800 MPa-Class Low-Alloy Steel through the Use of Delamination. <i>The Proceedings of the Computational Mechanics Conference</i> , 2008 , 2008.21, 700-701	0	
19	Comparative study on microstructure evolution upon unidirectional and multidirectional cold working in an Fe-15%Cr ferritic alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 323-331	5.3	29
18	Toughening of a 1500 MPa class steel through formation of an ultrafine fibrous grain structure. <i>Scripta Materialia</i> , 2007 , 57, 465-468	5.6	44
17	Crystallographic Texture of Warm Caliber-rolled Low Carbon Steel. <i>Materials Transactions</i> , 2007 , 48, 2028-2035	2.4	
16	Deformation Microstructures in a Two-Phase Stainless Steel during Large Strain Deformation. <i>Materials Science Forum</i> , 2006 , 503-504, 305-310	0.4	

15	On Structural Mechanism of Continuous Recrystallization in Ferritic Stainless Steel after Large Strain Processing. <i>Materials Science Forum</i> , 2006 , 503-504, 323-328	0.4	3
14	Recovery and Recrystallization in Cold Worked Fe-10Ni Steels. <i>Materials Science Forum</i> , 2004 , 467-470, 229-234	0.4	2
13	Effect of Nano-Sized Oxides on Annealing Behaviour of Ultrafine Grained Steels. <i>Materials Transactions</i> , 2004 , 45, 2252-2258	1.3	9
12	Microstructure Evolution in Ferritic Stainless Steels during Large Strain Deformation. <i>Materials Transactions</i> , 2004 , 45, 2812-2821	1.3	41
11	Hydrogen induced delayed fracture of ultrafine grained 0.6% C steel with dispersed oxide particles. <i>Scripta Materialia</i> , 2003 , 49, 1111-1116	5.6	24
10	Microstructures and Mechanical Properties in Ultra Fine-grained Oxide-dispersion Ferritic Stainless Steels. <i>ISIJ International</i> , 2000 , 40, S174-S178	1.7	26
9	Ultra Grain Refining of Steels and Dissolution Capacity of Cementite by Super-heavy Deformation. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1999 , 85, 52-58	0.5	25
8	Consolidation of Eutectoid Steel Powder with Mechanical Milling.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1999 , 46, 1256-1260	0.2	4
7	Ultra Grain Refining and Decomposition of Oxide during Super-heavy Deformation in Oxide Dispersion Ferritic Stainless Steel Powder.. <i>ISIJ International</i> , 1999 , 39, 176-182	1.7	94
6	Work-Hardening Mechanism during Super-Heavy Plastic Deformation in Mechanically Milled Iron Powder. <i>Materials Transactions, JIM</i> , 1999 , 40, 1149-1157		47
5	Effects of Cu and Other Tramp Elements on Steel Properties. Phase Transformation Mechanism of Fe-Cu Alloys.. <i>ISIJ International</i> , 1997 , 37, 290-295	1.7	43
4	Liquid Phase Sintering of Fe-Cu Super-Saturated Solid Solution Powders Produced by Mechanical Alloying. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1995 , 59, 1278-1285	0.4	1
3	Microstructural Changes during Annealing of Work-Hardened Mechanically Milled Metallic Powders (Overview). <i>Materials Transactions, JIM</i> , 1995 , 36, 289-296		70
2	Mechanical Alloying of Premixed .DELTA. and .GAMMA. Stainless Steel Powders with a Tie Lined Chemical Compositions.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1993 , 40, 315-319	0.2	2
1	Phase Decomposition in 24 mass%Cr-8 mass%Ni Two Phase Stainless Steel Powder Heavily Cold-Worked through Mechanical Milling. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1993 , 57, 254-260	0.4	1