Zenji Horita

List of Publications by Year
in descending order

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334 papers	25,868 citations	5876 81 h-index	7931 149 g-index
344 all docs	344 docs citations	344 times ranked	6647 citing authors

#	Article	IF	Citations
1	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. Materials Research Letters, 2022, 10, 163-256.	4.1	215
2	Structural and thermoelectric properties of CH₃NH₃SnI₃ perovskites processed by applying high pressure with shear strain. Materials Research Letters, 2022, 10, 521-529.	4.1	5
3	Severe Plastic Deformation under High Pressure: Upsizing Sample Dimensions. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2022, 86, 107-120.	0.2	1
4	Continuous high-pressure torsion of pure Al and Al-2Âwt% Fe alloy using multi-wires. Journal of Materials Science, 2021, 56, 8679-8688.	1.7	3
5	<i>In Situ</i> Synchrotron X-ray Analysis: Application of High-Pressure Sliding Process to Ti Allotropic Transformation. Materials Transactions, 2021, 62, 167-176.	0.4	9
6	Complex interactions between precipitation, grain growth and recrystallization in a severely deformed Al-Zn-Mg-Cu alloy and consequences on the mechanical behavior. Materialia, 2021, 15, 101028.	1.3	12
7	Synchrotron X-ray diffraction observation of phase transformation during annealing of Si processed by high-pressure torsion. Philosophical Magazine Letters, 2021, 101, 223-231.	0.5	7
8	Homogeneous Strain Introduction Using Reciprocation Technique in High-Pressure Sliding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3860-3870.	1.1	1
9	Phase transformations in Al-Ti-Mg powders consolidated by high-pressure torsion: Experiments and first-principles calculations. Journal of Alloys and Compounds, 2021, 889, 161815.	2.8	8
10	Influence of High Pressure Sliding and Rotary Swaging on Creep Behavior of P92 Steel at 500 Â°C. Metals, 2021, 11, 2044.	1.0	5
11	Phase Transformations in MgH₂â€“TiH₂ Hydrogen Storage System by Highâ€Pressure Torsion Process. Advanced Engineering Materials, 2020, 22, 1900027.	1.6	25
12	Microstructural details of hydrogen diffusion and storage in Tiâ€“Vâ€“Cr alloys activated through surface and bulk severe plastic deformation. International Journal of Hydrogen Energy, 2020, 45, 5326-5336.	3.8	27
13	Microstructures and the Mechanical Properties of the Alâ€“Liâ€“Cu Alloy Strengthened by the Combined Use of Accumulative Roll Bonding and Aging. Advanced Engineering Materials, 2020, 22, 1900561.	1.6	6
14	Effects of Grain Refinement and Predeformation Impact by Severe Plastic Deformation on Creep in P92 Martensitic Steel. Advanced Engineering Materials, 2020, 22, 1900448.	1.6	9
15	Phase transformations, vacancy formation and variations of optical and photocatalytic properties in TiO2-ZnO composites by high-pressure torsion. International Journal of Plasticity, 2020, 124, 170-185.	4.1	41
16	Enhanced photocatalytic hydrogen production on GaNâ€“ZnO oxynitride by introduction of strain-induced nitrogen vacancy complexes. Acta Materialia, 2020, 185, 149-156.	3.8	44
17	Highâ€pressure torsion of SiO₂ quartz sand: Phase transformation, optical properties, and significance in geology. Journal of the American Ceramic Society, 2020, 103, 6594-6602.	1.9	11
18	Formation of metastable bc8 phase from crystalline Si0.5Ge0.5 by high-pressure torsion. Materials Characterization, 2020, 169, 110590.	1.9	10

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19	Correlation between TEM, SAXS and DSC to investigate the influence of SPD on precipitation mechanisms of an Al-Zn-Mg-Cu alloy. MATEC Web of Conferences, 2020, 326, 08006.	0.1	0
20	The Effect of Predeformation on Creep Strength of 9% Cr Steel. Materials, 2020, 13, 5330.	1.3	6
21	High-pressure torsion to induce oxygen vacancies in nanocrystals of magnesium oxide: Enhanced light absorbance, photocatalysis and significance in geology. Materialia, 2020, 11, 100670.	1.3	12
22	Severe Plastic Deformation under High Pressure: Upsizing Sample Dimensions. Materials Transactions, 2020, 61, 1177-1190.	0.4	47
23	Magnetic measurements of hydrogen desorption from palladium hydride PdH0.64 prepared by severe plastic deformation. Journal of Applied Physics, 2020, 127, .	1.1	6
24	Improved Photocatalytic Hydrogen Evolution on Tantalate Perovskites CsTaO₃ and LiTaO₃ by Strain-Induced Vacancies. ACS Applied Energy Materials, 2020, 3, 1710-1718.	2.5	35
25	Photocatalytic hydrogen generation on low-bandgap black zirconia (ZrO₂) produced by high-pressure torsion. Journal of Materials Chemistry A, 2020, 8, 3643-3650.	5.2	65
26	Grain refinement and superplasticity of pipes processed by high-pressure sliding. Materials Science and Technology, 2020, 36, 877-886.	0.8	11
27	Fatigue Property and Cytocompatibility of a Biomedical Coâ€“Crâ€“Mo Alloy Subjected to a High Pressure Torsion and a Subsequent Short Time Annealing. Materials Transactions, 2020, 61, 361-367.	0.4	7
28	Severe Plastic Deformation for Nanostructure Controls. Materials Transactions, 2020, 61, 2241-2247.	0.4	26
29	Impact of TiO₂-II phase stabilized in anatase matrix by high-pressure torsion on electrocatalytic hydrogen production. Materials Research Letters, 2019, 7, 334-339.	4.1	29
30	Photocatalytic activity of aluminum oxide by oxygen vacancy generation using high-pressure torsion straining. Scripta Materialia, 2019, 173, 120-124.	2.6	19
31	Structure and mechanical behavior of ultrafine-grained aluminum-iron alloy stabilized by nanoscaled intermetallic particles. Acta Materialia, 2019, 167, 89-102.	3.8	54
32	Hydrostatic pressure effects on superconducting transition of nanostructured niobium highly strained by high-pressure torsion. Journal of Applied Physics, 2019, 125, .	1.1	8
33	Multi-pass high-pressure sliding (MP-HPS) for grain refinement and superplasticity in metallic round rods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 108-118.	2.6	22
34	Critical Temperature in Bulk Ultrafine-Grained Superconductors of Nb, V, and Ta Processed by High-Pressure Torsion. Materials Transactions, 2019, 60, 1367-1376.	0.4	12
35	Low-temperature anatase-to-rutile phase transformation and unusual grain coarsening in titanium oxide nanopowders by high-pressure torsion straining. Scripta Materialia, 2019, 162, 341-344.	2.6	23
36	Microstructure and phase transformations of silica glass and vanadium oxide by severe plastic deformation via high-pressure torsion straining. Journal of Alloys and Compounds, 2019, 779, 394-398.	2.8	18

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37	High-pressure torsion of iron with various purity levels and validation of Hall-Petch strengthening mechanism. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 597-605.	2.6	43
38	Production of Superplastic Tiâ€“6Alâ€“7Nb Alloy Using High-Pressure Sliding Process. Materials Transactions, 2019, 60, 1785-1791.	0.4	7
39	Hydrostatic Compression Effects on Fifth-Group Element Superconductors V, Nb, and Ta Subjected to High-Pressure Torsion. Materials Transactions, 2019, 60, 1472-1483.	0.4	17
40	Design and synthesis of a magnesium alloy for room temperature hydrogen storage. Acta Materialia, 2018, 149, 88-96.	3.8	157
41	Incremental Feeding High-Pressure Sliding for Grain Refinement of Large-Scale Sheets: Application to Inconel 718. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1830-1840.	1.1	31
42	Influence of high-pressure torsion on formation/destruction of nano-sized spinodal structures. AIP Conference Proceedings, 2018, , .	0.3	1
43	High-pressure torsion for new hydrogen storage materials. Science and Technology of Advanced Materials, 2018, 19, 185-193.	2.8	57
44	Grain growth in nanograined aluminum oxide by high-pressure torsion: Phase transformation and plastic strain effects. Scripta Materialia, 2018, 152, 11-14.	2.6	19
45	Effect of gradient-structure versus uniform nanostructure on hydrogen storage of Ti-V-Cr alloys: Investigation using ultrasonic SMAT and HPT processes. Journal of Alloys and Compounds, 2018, 737, 337-346.	2.8	30
46	Effect of temperature rise on microstructural evolution during high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 714, 167-171.	2.6	74
47	Transition from poor ductility to room-temperature superplasticity in a nanostructured aluminum alloy. Scientific Reports, 2018, 8, 6740.	1.6	70
48	PM-22Microstructure observation of HPT processed Al-2.5mass%Li(-2.0mass%Cu) alloy. Microscopy (Oxford, England), 2018, 67, i46-i46.	0.7	0
49	Low-Temperature and High-Strain-Rate Superplasticity of Ultrafine-Grained A7075 Processed by High-Pressure Torsion. Materials Transactions, 2018, 59, 1341-1347.	0.4	7
50	Developing high-performance light metallic materials through microstructural refinement using severe plastic deformation. Keikinzoku/Journal of Japan Institute of Light Metals, 2018, 68, 407-417.	0.1	0
51	Incremental Feeding High-Pressure Sliding for Achieving Large Area of Severe Plastic Deformation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2018, 82, 25-31.	0.2	14
52	New Mgâ€“Vâ€“Cr BCC Alloys Synthesized by High-Pressure Torsion and Ball Milling. Materials Transactions, 2018, 59, 741-746.	0.4	21
53	Crystal and electronic structural changes during annealing in severely deformed Si containing metastable phases formed by high-pressure torsion. Applied Physics Letters, 2018, 113, .	1.5	11
54	Long-time stability of metals after severe plastic deformation: Softening and hardening by self-annealing versus thermal stability. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 340-348.	2.6	48

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55	Hydrolytic Hydrogen Production on Alâ€“Snâ€“Zn Alloys Processed by High-Pressure Torsion. Materials, 2018, 11, 1209.	1.3	19
56	The Effect of Ultrafine-Grained Microstructure on Creep Behaviour of 9% Cr Steel. Materials, 2018, 11, 787.	1.3	15
57	Combination of High-Pressure Torsion with Incremental Feeding for Upsizing Sample. Materials Transactions, 2018, 59, 1009-1012.	0.4	11
58	Thermal Conductivity Reduction of Bulk GaAs using Giant Strain. The Proceedings of the Thermal Engineering Conference, 2018, 2018, 0176.	0.0	0
59	High-resolution transmission electron microscopy analysis of bulk nanograined silicon processed by high-pressure torsion. Materials Characterization, 2017, 129, 163-168.	1.9	19
60	Room-Temperature Superplasticity in an Ultrafine-Grained Magnesium Alloy. Scientific Reports, 2017, 7, 2662.	1.6	100
61	Hydrogen diffusion in ultrafine-grained iron with the body-centered cubic crystal structure. Philosophical Magazine Letters, 2017, 97, 158-168.	0.5	3
62	Electrical resistivity mapping of titanium and zirconium discs processed by high-pressure torsion for homogeneity and phase transformation evaluation. Journal of Materials Science, 2017, 52, 6778-6788.	1.7	12
63	Phase transformation of germanium by processing through high-pressure torsion: strain and temperature effects. Philosophical Magazine Letters, 2017, 97, 27-34.	0.5	21
64	High-resolution transmission electron microscopy analysis of nanograined germanium produced by high-pressure torsion. Materials Characterization, 2017, 132, 132-138.	1.9	23
65	High-pressure zinc oxide phase as visible-light-active photocatalyst with narrow band gap. Journal of Materials Chemistry A, 2017, 5, 20298-20303.	5.2	101
66	Strengthening of A2024 alloy by high-pressure torsion and subsequent aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 112-118.	2.6	45
67	Contactless measurement of electrical conductivity for bulk nanostructured silver prepared by high-pressure torsion: A study of the dissipation process of giant strain. Journal of Applied Physics, 2017, 122, .	1.1	5
68	Ultra-severe plastic deformation: Evolution of microstructure, phase transformation and hardness in immiscible magnesium-based systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 701, 158-166.	2.6	62
69	High-pressure torsion of aluminum with ultrahigh purity (99.9999%) and occurrence of inverse Hall-Petch relationship. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 428-434.	2.6	75
70	Superplasticity of Inconel 718 after processing by high-pressure sliding (HPS). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 603-612.	2.6	27
71	Extra Strengthening and Superplasticity of Ultrafine-Grained A2024 Alloy Produced by High-Pressure Sliding. Materials Transactions, 2017, 58, 1647-1655.	0.4	8
72	Significance of High-Pressure Torsion (HPT) on Solid-State Hydrogen Storage Properties. , 2017, , .		0

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73	Development of ultra high strength (1GPa) aluminum alloy using severe plastic deformation under high pressure. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 519-520.	0.1	4
74	Fabrication of high-strength and high-ductility laminated A2024 aluminum alloy/aluminum composite by severe plastic deformation under high pressure. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 179-185.	0.1	1
75	Thermal conductivity reduction of bulk Si and Si/Ge material prepared by HPT process. The Proceedings of Conference of Kyushu Branch, 2017, 2017.70, 104.	0.0	0
76	Grain Refinement Mechanism and Evolution of Dislocation Structure of Coâ€“Crâ€“Mo Alloy Subjected to High-Pressure Torsion. Materials Transactions, 2016, 57, 1109-1118.	0.4	15
77	Hydrogen Embrittlement of Ultrafine-grained Austenitic Stainless Steels Processed by High-pressure Torsion at Moderate Temperature. ISIJ International, 2016, 56, 1083-1090.	0.6	10
78	GRAIN REFINEMENT AND MICROSTRUCTURE EVOLUTION IN ALUMINUM A2618 ALLOY BY HIGH-PRESSURE TORSION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
79	Scaling up of High-Pressure Sliding (HPS) for Grain Refinement and Superplasticity. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4669-4681.	1.1	44
80	Large enhancement of superconducting transition temperature in single-element superconducting rhenium by shear strain. Scientific Reports, 2016, 6, 36337.	1.6	35
81	Real Hydrostatic Pressure in High-Pressure Torsion Measured by Bismuth Phase Transformations and FEM Simulations. Materials Transactions, 2016, 57, 533-538.	0.4	34
82	Hydrogen generation from pure water using Alâ€“Sn powders consolidated through high-pressure torsion. Journal of Materials Research, 2016, 31, 775-782.	1.2	21
83	Activation of titanium-vanadium alloy for hydrogen storage by introduction of nanograins and edge dislocations using high-pressure torsion. International Journal of Hydrogen Energy, 2016, 41, 8917-8924.	3.8	54
84	Optimization of Microstructure and Mechanical Properties of Coâ€“Crâ€“Mo Alloys by High-Pressure Torsion and Subsequent Short Annealing. Materials Transactions, 2016, 57, 1887-1896.	0.4	10
85	Visible-Light-Driven Photocatalytic Hydrogen Generation on Nanosized TiO₂-II Stabilized by High-Pressure Torsion. ACS Catalysis, 2016, 6, 5103-5107.	5.5	73
86	A review on high-pressure torsion (HPT) from 1935 to 1988. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 652, 325-352.	2.6	444
87	New nanostructured phases with reversible hydrogen storage capability in immiscible magnesiumâ€“zirconium system produced by high-pressure torsion. Acta Materialia, 2016, 108, 293-303.	3.8	72
88	Microstructural evolution and mechanical properties of biomedical Coâ€“Crâ€“Mo alloy subjected to high-pressure torsion. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 226-235.	1.5	26
89	Producing Bulk Ultrafine-Grained Materials by Severe Plastic Deformation: Ten Years Later. Jom, 2016, 68, 1216-1226.	0.9	346
90	Solid-state reactions and hydrogen storage in magnesium mixed with various elements by high-pressure torsion: experiments and first-principles calculations. RSC Advances, 2016, 6, 11665-11674.	1.7	24

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91	Allotropic phase transformation and photoluminescence of germanium nanograins processed by high-pressure torsion. Journal of Materials Science, 2016, 51, 138-143.	1.7	21
92	Cytocompatibility of Tiâ€“6Alâ€“7Nb through High-Pressure Torsion Processing. Materials Transactions, 2016, 57, 2020-2025.	0.4	11
93	Achieving Superplasticity of Ultrafine-Grained Rod-Like AZ61 Alloy Using High-Pressure Sliding. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 128-133.	0.2	10
94	High Resolution TEM Observation of Nanocrystalline Silicon Fabricated by High Pressure Torsion (HPT). Microscopy and Microanalysis, 2015, 21, 1783-1784.	0.2	0
95	High Strength and Electrical Conductivity of Alâ€Fe Alloys Produced by Synergistic Combination of Highâ€Pressure Torsion and Aging. Advanced Engineering Materials, 2015, 17, 1792-1803.	1.6	29
96	High-pressure torsion of thick Cu and Alâ€“Mgâ€“Sc ring samples. Journal of Materials Science, 2015, 50, 4888-4897.	1.7	6
97	High Strength and High Uniform Ductility in a Severely Deformed Iron Alloy by Lattice Softening and Multimodal-structure Formation. Materials Research Letters, 2015, 3, 197-202.	4.1	30
98	Formation of metastable phases in magnesiumâ€“titanium system by high-pressure torsion and their hydrogen storage performance. Acta Materialia, 2015, 99, 150-156.	3.8	73
99	Age hardening and thermal stability of Alâ€“Cu alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 111-118.	2.6	70
100	Strengthening of AA7075 alloy by processing with high-pressure sliding (HPS) and subsequent aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 56-61.	2.6	38
101	Ultrafine-grained magnesiumâ€“lithium alloy processed by high-pressure torsion: Low-temperature superplasticity and potential for hydroforming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 443-448.	2.6	87
102	High-pressure torsion of metastable austenitic stainless steel at moderate temperatures. Philosophical Magazine Letters, 2015, 95, 269-276.	0.5	7
103	Aging Behavior of Al 6061 Alloy Processed by High-Pressure Torsion and Subsequent Aging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2664-2673.	1.1	31
104	Age Hardening in Ultrafine-Grained Al-2ÂPctÂFe Alloy Processed by High-Pressure Torsion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2614-2624.	1.1	18
105	Plastic Deformation of BaTiO₃Ceramics by High-pressure Torsion and Changes in Phase Transformations, Optical and Dielectric Properties. Materials Research Letters, 2015, 3, 216-221.	4.1	64
106	Grain refinement and high strain rate superplasticity in alumunium 2024 alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 622, 139-145.	2.6	62
107	Formation of FeNi withL1₀-ordered structure using high-pressure torsion. Philosophical Magazine Letters, 2014, 94, 639-646.	0.5	79
108	Effect of temperature on solid-state formation of bulk nanograined intermetallic Al₃Ni during high-pressure torsion. Philosophical Magazine, 2014, 94, 876-887.	0.7	17

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109	High-pressure torsion of titanium at cryogenic and room temperatures: Grain size effect on allotropic phase transformations. Acta Materialia, 2014, 68, 207-213.	3.8	78
110	Influence of dislocationâ€“solute atom interactions and stacking fault energy on grain size of single-phase alloys after severe plastic deformation using high-pressure torsion. Acta Materialia, 2014, 69, 68-77.	3.8	173
111	Nanograin formation of GaAs by high-pressure torsion. Philosophical Magazine Letters, 2014, 94, 1-8.	0.5	27
112	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. Nanoscale Research Letters, 2014, 9, 326.	3.1	23
113	High-pressure torsion for fabrication of high-strength and high-electrical conductivity Al micro-wires. Journal of Materials Science, 2014, 49, 6550-6557.	1.7	33
114	Fabrication of nanograined silicon by high-pressure torsion. Journal of Materials Science, 2014, 49, 6565-6569.	1.7	32
115	Application of high-pressure torsion to Al-6Â%Cu-0.4Â%Zr alloy for ultrafine-grain refinement and superplasticity. Journal of Materials Science, 2014, 49, 6689-6695.	1.7	5
116	Strengthening of Cuâ€“Niâ€“Si alloy using high-pressure torsion and aging. Materials Characterization, 2014, 90, 62-70.	1.9	50
117	High strength and superconductivity in nanostructured niobiumâ€“titanium alloy by high-pressure torsion and annealing: Significance of elemental decomposition and supersaturation. Acta Materialia, 2014, 80, 149-158.	3.8	33
118	Softening by severe plastic deformation and hardening by annealing of aluminumâ€“zinc alloy: Significance of elemental and spinodal decompositions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 610, 17-27.	2.6	56
119	Aging Behavior of Ultrafine-Grained Al–Mg–Si–X (X = Cu, Ag, Pt, Pd) Alloys Produced by High-Pressure Torsion. Materials Transactions, 2014, 55, 640-645.	0.4	5
120	Graphite to diamond-like carbon phase transformation by high-pressure torsion. Applied Physics Letters, 2013, 103, .	1.5	26
121	Strengthening of Al through addition of Fe and by processing with high-pressure torsion. Journal of Materials Science, 2013, 48, 4713-4722.	1.7	27
122	Methods for Designing Concurrently Strengthened Severely Deformed Age-Hardenable Aluminum Alloys by Ultrafine-Grained and Precipitation Hardenings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3921-3933.	1.1	43
123	Enhancement of Strength and Ductility of Al-Ag Alloys Processed by High-Pressure Torsion and Aging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3221-3231.	1.1	10
124	Mechanism of activation of TiFe intermetallics for hydrogen storage by severe plastic deformation using high-pressure torsion. Applied Physics Letters, 2013, 103, .	1.5	83
125	Superconducting properties in bulk nanostructured niobium prepared by high-pressure torsion. Physica C: Superconductivity and Its Applications, 2013, 493, 132-135.	0.6	25
126	Evolution of lattice defects, disordered/ordered phase transformations and mechanical properties in Niâ€“Alâ€“Ti intermetallics by high-pressure torsion. Journal of Alloys and Compounds, 2013, 563, 221-228.	2.8	20

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127	High-pressure torsion for enhanced atomic diffusion and promoting solid-state reactions in the aluminumâ€“copper system. Acta Materialia, 2013, 61, 3482-3489.	3.8	159
128	High-pressure torsion of TiFe intermetallics for activation of hydrogen storage at room temperature with heterogeneous nanostructure. International Journal of Hydrogen Energy, 2013, 38, 4622-4627.	3.8	122
129	High-pressure torsion of pure cobalt: hcp-fcc phase transformations and twinning during severe plastic deformation. Applied Physics Letters, 2013, 102, .	1.5	69
130	Dynamic recrystallization and recovery during high-pressure torsion: Experimental evidence by torque measurement using ring specimens. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 506-509.	2.6	37
131	Hydrogen behavior in ultrafine-grained palladium processed by high-pressure torsion. International Journal of Hydrogen Energy, 2013, 38, 14879-14886.	3.8	9
132	Application of High-Pressure Torsion to WC–Co Ceramic-Based Composites for Improvement of Consolidation, Microstructure and Hardness. Materials Transactions, 2013, 54, 1540-1548.	0.4	17
133	Effects of High-Pressure Torsion on the Pitting Corrosion Resistance of Aluminum–Iron Alloys. Materials Transactions, 2013, 54, 1642-1649.	0.4	14
134	Phase transformation and nanograin refinement of silicon by processing through high-pressure torsion. Applied Physics Letters, 2012, 101, .	1.5	65
135	Simultaneous strengthning due to grain refinement and fine precipitation. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 398-405.	0.1	7
136	Aging behavior of ultrafine-grained Al^|^ndash;Mg^|^ndash;Si^|^ndash;X (X=Cu, Ag, Pt, Pd) alloys produced by high-pressure torsion. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 448-453.	0.1	3
137	Grain refinement and high strengthening of 7075 aluminum alloy by high-pressure sliding. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 454-458.	0.1	13
138	Equal-Channel Angular Pressing and High-Pressure Torsion of Pure Copper: Evolution of Electrical Conductivity and Hardness with Strain. Materials Transactions, 2012, 53, 123-127.	0.4	77
139	Strengthening via Microstructure Refinement in Bulk Al–4 mass% Fe Alloy Using High-Pressure Torsion. Materials Transactions, 2012, 53, 46-55.	0.4	25
140	Hydrogen Effects on Ultrafine-Grained Steels Processed by High-Pressure Torsion. Materials Transactions, 2012, 53, 773-785.	0.4	18
141	High-Pressure Torsion for Pure Chromium and Niobium. Materials Transactions, 2012, 53, 38-45.	0.4	45
142	Effects of Low Rotational Speed on Crystal Orientation of Bi₂Te₃-Based Thermoelectric Semiconductors Deformed by High-Pressure Torsion. Materials Transactions, 2012, 53, 588-591.	0.4	5
143	Effects of ball milling and high-pressure torsion for improving mechanical properties of Alâ€“Al2O3 nanocomposites. Journal of Materials Science, 2012, 47, 7821-7827.	1.7	26
144	Ultrahigh strength and high plasticity in TiAl intermetallics with bimodal grain structure and nanotwins. Scripta Materialia, 2012, 67, 814-817.	2.6	94

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145	Powder consolidation of Alâ€“10 wt% Fe alloy by High-Pressure Torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 462-471.	2.6	58
146	Mechanical Properties and Microstructures of Al-Fe Alloys Processed by High-Pressure Torsion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 5182-5192.	1.1	42
147	Effect of Equal-Channel Angular Pressing on Pitting Corrosion of Pure Aluminum. International Journal of Corrosion, 2012, 2012, 1-9.	0.6	15
148	Production of Al/Al₂O₃ Nanocomposites through Consolidation by High-Pressure Torsion. Materials Transactions, 2012, 53, 13-16.	0.4	32
149	Continuous high-pressure torsion using wires. Journal of Materials Science, 2012, 47, 473-478.	1.7	44
150	Microstructures and Mechanical properties of Al-Al2O3 Composites Processed by Disk-HPT and Ring-HPT. , 2012, , 1011-1016.		0
151	Correlations between hardness and atomic bond parameters of pure metals and semi-metals after processing by high-pressure torsion. Scripta Materialia, 2011, 64, 161-164.	2.6	58
152	High-pressure torsion of pure magnesium: Evolution of mechanical properties, microstructures and hydrogen storage capacity with equivalent strain. Scripta Materialia, 2011, 64, 880-883.	2.6	239
153	Plastic deformation and allotropic phase transformations in zirconia ceramics during high-pressure torsion. Scripta Materialia, 2011, 65, 974-977.	2.6	95
154	High-pressure torsion of pure metals: Influence of atomic bond parameters and stacking fault energy on grain size and correlation with hardness. Acta Materialia, 2011, 59, 6831-6836.	3.8	212
155	Microstructural evolution in an aluminum solid solution alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6059-6065.	2.6	61
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