

Yo Tomota

List of Publications by Year in descending order

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Plane bending fatigue behavior of interstitial-free steel at room temperature. International Journal of Materials Research, 2022, 97, 1559-1565. | 0.1 | 1 |
| 2 | Mechanism of Improved Ductility of 1,500 MPa-class Ultra-high Strength Cold-rolled Steel Sheet Produced by Rolling and Partitioning Method. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 154-164. | 0.1 | 2 |
| 3 | Mechanism of Improved Ductility of 1500 MPa-class Ultra-high Strength Cold-rolled Steel Sheet Produced by Rolling and Partitioning Method. ISIJ International, 2020, 60, 2097-2106. | 0.6 | 5 |
| 4 | <i>In situ</i> Neutron Diffraction on Ferrite and Pearlite Transformations for a 1.5Mn-1.5Si-0.2C Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 262-271. | 0.1 | 0 |
| 5 | Mechanical Behavior of Individual Retained Austenite Grains in High Carbon Quenched-tempered Steel. ISIJ International, 2019, 59, 559-566. | 0.6 | 16 |
| 6 | Crystallographic characterization of steel microstructure using neutron diffraction. Science and Technology of Advanced Materials, 2019, 20, 1189-1206. | 2.8 | 14 |
| 7 | <i>In situ</i> Neutron Diffraction Study on Ferrite and Pearlite Transformations for a 1.5Mn-1.5Si-0.2C Steel. ISIJ International, 2018, 58, 2125-2132. | 0.6 | 13 |
| 8 | <i>In-situ</i> Observation of Dislocation Evolution in Ferritic and Austenitic Stainless Steels under Tensile Deformation by Using Neutron Diffraction. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 201-207. | 0.1 | 11 |
| 9 | High stereographic resolution texture and residual stress evaluation using time-of-flight neutron diffraction. Journal of Applied Crystallography, 2018, 51, 746-760. | 1.9 | 27 |
| 10 | Multi-scaled heterogeneous deformation behavior of pearlite steel studied by in situ neutron diffraction. Scripta Materialia, 2017, 140, 45-49. | 2.6 | 13 |
| 11 | Work Hardening, Dislocation Structure, and Load Partitioning in Lath Martensite Determined by In Situ Neutron Diffraction Line Profile Analysis. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4080-4092. | 1.1 | 59 |
| 12 | Composite Behavior of Lath Martensite Steels Induced by Plastic Strain, a New Paradigm for the Elastic-Plastic Response of Martensitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 159-167. | 1.1 | 56 |
| 13 | Comparison of the Measurements of Austenite Volume Fraction by Various Methods for Mn-Si-C Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 570-578. | 0.1 | 17 |
| 14 | Microstructure Evolution during Reverse Transformation of Austenite from Tempered Martensite in Low Alloy Steel. ISIJ International, 2017, 57, 533-539. | 0.6 | 31 |
| 15 | <i>In situ</i> Observations of Transformation Behavior upon Heating for a 1.5Mn-1.5Si-0.2C Steel -Comparison between Neutron Diffraction, XRD, EBSD and Dilatometry-. ISIJ International, 2017, 57, 2237-2244. | 0.6 | 24 |
| 16 | Recent Progress of Line-profile Analyses for Neutron or X-ray Diffraction. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 73-85. | 0.1 | 23 |
| 17 | Characterization of Microstructures and Elasto-plastic Deformation Behavior of Metals and Alloys Using Neutron Beam (1) —Targets and Methods of Measurements—; Materia Japan, 2017, 56, 14-19. | 0.1 | 0 |
| 18 | Characterization of Microstructures and Elasto-plastic Deformation Behavior of Metals and Alloys Using Neutron Beam (2) —<i>In Situ</i> Measurements of Microstructure Evolution during Material Processing—;. Materia Japan, 2017, 56, 70-75. | 0.1 | 0 |

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| 19 | Characterization of Microstructures and Elasto-plastic Deformation Behavior of Metals and Alloys using Neutron Beam (3) — In-situ Measurements during Elasto-plastic Deformation —. <i>Materia Japan</i> , 2017, 56, 296-301. | 0.1 | 0 |
| 20 | Monitoring of Bainite Transformation Using in Situ Neutron Scattering. <i>Metals</i> , 2016, 6, 16. | 1.0 | 9 |
| 21 | In-situ neutron diffraction during tension-compression cyclic deformation of a pearlite steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 522-530. | 2.6 | 24 |
| 22 | Dislocation Characteristics of Martensitic Steel Studied by In-Situ Neutron Diffraction Experiment. , 2015, , . | | 1 |
| 23 | High-temperature Corrosion Behavior of Heat-resistant Cast Alloys in a Low-grade Fuel Firing Boiler Ash Environment. <i>Zairyo To Kankyo/ Corrosion Engineering</i> , 2015, 64, 132-138. | 0.0 | 0 |
| 24 | Unusual Tempering Behavior of Fe-Cr-C Martensite. <i>ISIJ International</i> , 2015, 55, 686-690. | 0.6 | 10 |
| 25 | Quantitative Analysis of Cementite Spheroidization in Pearlite by Small-Angle Neutron Scattering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1731-1740. | 1.1 | 6 |
| 26 | Microstructure and Residual Strain Distribution in Cast Duplex Stainless Steel Studied by Neutron Imaging. , 2015, , . | | 0 |
| 27 | Stress Corrosion Cracking Behavior at Inconel and Low Alloy Steel Weld Interfaces. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 6103-6117. | 1.1 | 11 |
| 28 | Microstructural Changes by Annealing in Ultrafine-Grained Electrodeposited Pure Iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 990-1000. | 1.1 | 3 |
| 29 | Study on Thermo-mechanically Controlled Processing of Steel using Neutron Diffraction. <i>Hamon</i> , 2014, 24, 40-44. | 0.0 | 0 |
| 30 | Bulky Averaged Microscopic Information for ECAP-Processed Cu Using Accelerator-Based Gamma-Ray-Induced Positron Annihilation Spectroscopy and Neutron Diffraction. <i>Materials Transactions</i> , 2013, 54, 1562-1569. | 0.4 | 3 |
| 31 | In-situ neutron diffraction analysis on deformation behavior of duplex high Mn steel containing austenite and ϵ -martensite. <i>Metals and Materials International</i> , 2012, 18, 751-755. | 1.8 | 16 |
| 32 | Hydrogen Behavior in an Ultrafine-Grained Electrodeposited Pure Iron. <i>ISIJ International</i> , 2011, 51, 1534-1538. | 0.6 | 5 |
| 33 | Tensile Behavior of a TRIP-aided Ultra-fine Grained Steel Studied by Neutron Diffraction. <i>ISIJ International</i> , 2011, 51, 145-150. | 0.6 | 59 |
| 34 | Stress Partitioning Behavior of a DP Steel Studied by in situ Neutron Diffraction. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2011, 97, 209-211. | 0.1 | 6 |
| 35 | Quantitative analysis of fine nano-sized precipitates in low-carbon steels by small angle neutron scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 613-620. | 1.1 | 20 |
| 36 | High Tensile Strength of Low-Carbon Ferritic Steel Subjected to Severe Drawing. <i>Materials Transactions</i> , 2009, 50, 51-55. | 0.4 | 7 |

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| 37 | Effect of Microscopic Internal Structure on Sound Absorption Properties of Polyurethane Foam by X-ray Computed Tomography Observations. <i>Materials Transactions</i> , 2009, 50, 373-380. | 0.4 | 13 |
| 38 | Stress Partitioning and Deformation Induced Martensitic Transformation for TRIP-DP Steels Studied by In Situ Neutron Diffraction. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2009, 75, 501-506. | 0.2 | 4 |
| 39 | Improvement of Tensile Properties by Microstructural Control for Ultrafine-Grained Multi-Phase Steels. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2009, 75, 761-766. | 0.2 | 0 |
| 40 | Deformation Behavior of an Austempered Ductile Cast Iron Studied by Neutron Diffraction. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2008, 74, 377-383. | 0.2 | 0 |
| 41 | Tensile Behavior of Fine-grained Steels. <i>ISIJ International</i> , 2008, 48, 1107-1113. | 0.6 | 53 |
| 42 | Relationship between Sound Absorption Property and Microscopic Structure Determined by X-ray Computed Tomography in Urethane Foam Used as Sound Absorption Material for Automobiles. <i>Materials Transactions</i> , 2008, 49, 345-351. | 0.4 | 13 |
| 43 | Deformation Behaviors of Aluminum Alloys for Automobile Parts Studied by Neutron Diffraction. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2008, 74, 384-390. | 0.2 | 0 |
| 44 | Dynamic Recrystallization and Dynamic Precipitation Behaviors of a 17Ni-0.2C Martensite Steel Studied by In Situ Neutron Diffraction. <i>ISIJ International</i> , 2008, 48, 1618-1625. | 0.6 | 14 |
| 45 | Flow Stress Analysis using the Kocks-Mecking Model for Ferrite-Cementite Steels with Various Ferrite Grain Sizes. <i>ISIJ International</i> , 2008, 48, 1020-1025. | 0.6 | 9 |
| 46 | Fatigue strength and fracture behavior of steels with and without interstitial carbon at room temperature in air. <i>International Journal of Materials Research</i> , 2007, 98, 209-216. | 0.1 | 1 |
| 47 | Development of engineering diffractometer at J-PARC. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 1043-1045. | 1.3 | 19 |
| 48 | Plane bending fatigue behavior of interstitial-free steel at room temperature. <i>International Journal of Materials Research</i> , 2006, 97, 1559-1565. | 0.1 | 5 |
| 49 | Measurements of Volume Fraction and Carbon Concentration of the Retained Austenite by Neutron Diffraction. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2006, 92, 557-561. | 0.1 | 14 |
| 50 | High Oxidation-resistance Coating for Steel by Using Aluminum and Titanium Powders. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005, 91, 206-211. | 0.1 | 6 |
| 51 | Microstructure and Deformation Behavior of Nitrogen Bearing Austenitic Steels Evaluated by Neutron Scattering Analyses. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005, 91, 822-827. | 0.1 | 11 |
| 52 | Surface Modification of Carbon Steel and Tool Steel by Auminizing with Powder Liquid Coating and Plasma Nitriding. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005, 91, 212-216. | 0.1 | 3 |
| 53 | Multi-scaled Heterogenetity and Influence of Texture on Plastic Flow of Pearlite Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005, 91, 816-821. | 0.1 | 6 |
| 54 | Dynamic Recrystallization Behavior in Martensite in 18Ni, 17Ni-0.2C and SM490 Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005, 91, 602-608. | 0.1 | 8 |

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| 55 | Microstructure of Hardened Layer Obtained by Plasma Nitridation of Aluminized High Purity Iron. <i>Materia Japan</i> , 2005, 44, 961-961. | 0.1 | 0 |
| 56 | Tensile Deformation Behavior at High Strain Rate for Ultrafine-grained Ferrite cementite Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004, 90, 1043-1049. | 0.1 | 15 |
| 57 | Residual Stress Measurement by Neutron Diffraction inside a Steel Bar Quenched after Induction Heating. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004, 90, 1038-1042. | 0.1 | 2 |
| 58 | Tensile Properties Obtained by Static Tensile Tests in Ultrafine-grained Ferrite-Cementite Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2003, 89, 1170-1177. | 0.1 | 28 |
| 59 | OS04W0082 Anisotropic residual stresses in a pearlitic steel after tensile deformation. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS04W0082-_OS04W0082. | 0.0 | 0 |
| 60 | OS4(4)-17(OS04W0082) Anisotropic Residual Stresses in a Pearlitic Steel after Tensile Deformation. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 199. | 0.0 | 0 |
| 61 | Residual Thermal Phase Stresses in α - γ Fe-Cr-Ni Alloys Measured by a Neutron Diffraction Time-of-Flight Method. <i>Materials Transactions</i> , 2002, 43, 1696-1702. | 0.4 | 13 |
| 62 | High Strain Rate Deformation Behaviour of Steels for Auto-Body. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2002, 88, 703-714. | 0.1 | 7 |
| 63 | Plastic Anisotropy in an Electrodeposited Pure Iron. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2002, 88, 801-807. | 0.1 | 10 |
| 64 | Analysis of Internal Stress Distribution and Strain Energy Yielded by γ Martensitic Transformation in a High Mn Ferrous Alloy. <i>Proceedings of the 1992 Annual Meeting of JSME/MMD</i> , 2002, 2002, 281-282. | 0.0 | 0 |
| 65 | High-temperature deformation of Cementite produced by mechanical alloying method. <i>The Proceedings of Ibaraki District Conference</i> , 2002, 2002, 129-130. | 0.0 | 0 |
| 66 | Estimation of Flow Stress by the Kocks-Mecking Model at Strain Rate of 10^3 /s for an Ultra Low Carbon Steel. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2001, 87, 657-664. | 0.1 | 17 |
| 67 | Compromise between environmental burdens and performance in strengthening steels.. <i>Journal of Advanced Science</i> , 2001, 13, 269-272. | 0.1 | 0 |
| 68 | Internal Stress and Strain Energy Yielded by γ Martensitic Transformation in a Polycrystalline Ferrous Alloy. <i>Materials Transactions, JIM</i> , 2000, 41, 727-732. | 0.9 | 7 |
| 69 | Anisotropy in Strength of a TiAl Base Polycrystal with Unidirectionally Oriented Lamellae. <i>Materials Transactions, JIM</i> , 2000, 41, 1287-1292. | 0.9 | 2 |
| 70 | Microstructural Control for Superplasticity Simply by Heat Treatment without Thermomechanical Processing in a Ti-46Al-3.5Cr Alloy.. <i>ISIJ International</i> , 2000, 40, 1041-1047. | 0.6 | 2 |
| 71 | 711 Compression behavior of Cementite and Cementite-Ferrite steel produced by mechanical alloying method. <i>The Proceedings of Ibaraki District Conference</i> , 2000, 2000, 201-202. | 0.0 | 0 |
| 72 | Estimation of CO ₂ Emission during Thermo-mechanical Process and Eco-steel Design of a Mn-Si-C Steel by Microstructural Control. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2000, 86, 196-202. | 0.1 | 1 |

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| 73 | 403 Analysis of Stress and Strain Energy Yielded by Martensitic Transformation. The Proceedings of Ibaraki District Conference, 2000, 2000, 95-96. | 0.0 | 0 |
| 74 | Formation of Oriented Lamellar Colonies in a TiAlMn Alloy Produced by a Reactive Sintering. Materials Transactions, JIM, 1999, 40, 1032-1037. | 0.9 | 3 |
| 75 | ⁵⁷Fe Mössbauer Study of γ -FeMn and ϵ -FeMn Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 635-641. | 0.2 | 9 |
| 76 | Residual Stress Measurements by X-ray and Neutron Diffractions in Heat-Treated SiCw/A2014 Composites. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 261-266. | 0.2 | 3 |
| 77 | Effect of Nitrogen Addition on Localized Corrosion Behavior in SUS316L Stainless Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1998, 84, 516-521. | 0.1 | 2 |
| 78 | Ti/Ti ₃ Sn Functionally Graded Coating by Reaction Diffusion and Eutectic Reaction. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 992-998. | 0.2 | 0 |
| 79 | Fabrication of Ti/Ti ₅ Si ₃ Functionally Graded Material by Eutectic Bonding Method. Materials Transactions, JIM, 1997, 38, 650-652. | 0.9 | 4 |
| 80 | Anodic Polarization Behavior and Pitting Potentials of High Nitrogen Bearing 18Mn-18Cr Austenitic Steels. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 216-224. | 0.2 | 4 |
| 81 | Upper and Lower Bounds in Flow Stress of a Dual Phase Steel Predicted by the Secant Method and Related Microstructures. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1997, 83, 827-832. | 0.1 | 12 |
| 82 | Enhancement of Shape Memory and Its Anisotropy by Training Treatment in an Fe-32Mn-6Si Alloy. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1997, 83, 389-394. | 0.1 | 7 |
| 83 | Fabrication of Ti/Ti ₃ Sn Functionally Graded Material by Eutectic Bonding Method. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 759-764. | 0.2 | 0 |
| 84 | New Method for Estimating the Effective Thermal Conductivity of Composite Materials from the Optical Micrograph Data. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 679-684. | 0.2 | 2 |
| 85 | Residual Elastic Strain Measurement in Heat-Treated SiC Whisker/A2014 Composite by Neutron Diffraction. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 56-64. | 0.2 | 6 |
| 86 | Thermal Conductivities of SUS304/PSZ Composite Materials. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1996, 82, 789-794. | 0.1 | 2 |
| 87 | Microstructure Control of a TiAl Base Alloy Prepared by Reactive-Sintering by Low Temperature HIP. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 1007-1012. | 0.2 | 7 |
| 88 | Microscopic Studies on Stress-induced Martensite Transformation and Its Reversion in an Fe-Mn-Si-Cr-Ni Shape Memory Alloy. Materials Transactions, JIM, 1995, 36, 719-728. | 0.9 | 48 |
| 89 | Phase Transformation, Microstructure, and Mechanical Behavior in Fe-Mn Alloys. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1991, 77, 315-325. | 0.1 | 23 |
| 90 | Effect of Prior Deformation of Austenite on the $\gamma \rightarrow \epsilon$ Martensitic Transformation in Fe-Mn Alloys. Materials Transactions, JIM, 1991, 32, 222-228. | 0.9 | 91 |

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| 91 | Effects of Applied Stress and Plastic Strain on $\gamma \rightarrow \epsilon$ Martensitic Transformation in High Mn Alloy Polycrystals. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1990, 54, 628-634. | 0.2 | 13 |
| 92 | Deformation Behavior in Compression in an FCC/BCC Laminated Fe-Cr-Ni Alloy. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1989, 75, 1703-1710. | 0.1 | 0 |
| 93 | Strength and Ductility Related with Structure of Dual Phase High Strength Steel Sheet. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1982, 68, 1147-1158. | 0.1 | 18 |
| 94 | Mechanical Properties of Two-Ductile-Phase Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1981, 67, 439-455. | 0.1 | 21 |
| 95 | On the Fatigue Strength of Steels Composed of Two Ductile Phases. Transactions of the Iron and Steel Institute of Japan, 1978, 18, 251-260. | 0.2 | 1 |
| 96 | Effect of Predeformation on the TRIP Phenomenon in Austenitic Fe-Ni-C Alloys. Transactions of the Iron and Steel Institute of Japan, 1977, 17, 159-165. | 0.2 | 8 |
| 97 | Fatigue Strength of Steels Composed of Two Phases. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1977, 63, 962-970. | 0.1 | 0 |
| 98 | Quantitative Evaluation of Texture and Dislocations during Annealing after Hot Deformation in Austenitic Steel Using Neutron Diffraction. Materials Science Forum, 0, 905, 25-30. | 0.3 | 0 |
| 99 | Unusual Plastic Deformation Behavior in Lath Martensitic Steel Containing High Dislocation Density. Materials Science Forum, 0, 905, 46-51. | 0.3 | 0 |