

No.	Description
34	Matsuoka, S., Yamabe, J. and Matsunaga, H. (2016) Hydrogen-induced ductility loss of austenitic stainless steels for slow strain rate tensile testing in high-pressure hydrogen gas, <i>Solid State Phenomena</i> , 258, 259-264. DOI: 10.4028/www.scientific.net/SSP.258.259
33	Okazaki, S., Wada, K., Matsunaga, H. and Endo, M. (2017) The influence of static crack-opening stress on the threshold level for shear-mode fatigue crack growth in bearing steels, <i>Engineering Fracture Mechanics</i> , 174, 127-138. DOI: 10.1016/j.engfracmech.2016.12.007
32	Lawrence, S.K., Somerday, B.P. and Karnesky, R.A. (2017) Elastic Property Dependence on Mobile and Trapped Hydrogen in Ni-201, <i>JOM</i> , 69 (1), 45-50. DOI: 10.1007/s11837-016-2157-x
31	Macadre, A., Tsuchiyama, T. and Takaki, S. (2017) Hydrogen-induced increase in phase stability in metastable austenite of various grain sizes under strain, <i>Journal of Materials Science</i> , 52 (6), 3419-3428. DOI: 10.1007/s10853-016-0630-0
30	Nakada, N., Ikeda, K.-I., Shuto, H., Yokoi, T., Tsuchiyama, T., Hata, S., Nakashima, H. and Takaki, S. (2016) Quantification of large deformation with punching in dual phase steel and change of its microstructure - Part II: Local strain mapping of dual phase steel by a combination technique of electron backscatter diffraction and digital image correlation methods, <i>ISIJ International</i> , 56 (11), 2077-2083. DOI: 10.2355/isijinternational.ISIJINT-2016-310
29	Kubota, M., Kataoka, S., Takazaki, D. and Kondo, Y. (2017) A quantitative approach to evaluate fretting fatigue limit using a pre-cracked specimen, <i>Tribology International</i> , 108, 48-56. DOI: 10.1016/j.triboint.2016.10.017
28	Nakamura, T., Takada, S. and Sugimura, J. (2016) Energy dissipation in contact of rough metallic surfaces under normal loading, <i>Toraibarojisuto/Journal of Japanese Society of Tribologists</i> , 61 (12), 838-844.
27	Oku, Y., Sugino, M., Ando, Y., Makino, T., Komoda, R., Takazaki, D. and Kubota, M. (2017) Fretting fatigue on thread root of premium threaded connections, <i>Tribology International</i> , 108, 111-120. DOI: 10.1016/j.triboint.2016.10.021
26	Saravanan, P., Selyanchyn, R., Tanaka, H., Darekar, D., Staykov, A., Fujikawa, S., Lyth, S.M. and Sugimura, J. (2016) Macroscale Superlubricity of Multilayer Polyethylenimine/Graphene Oxide Coatings in Different Gas Environments, <i>ACS Applied Materials and Interfaces</i> , 8 (40), 27179-27187. DOI: 10.1021/acsami.6b06779
25	Akama, D., Tsuchiyama, T. and Takaki, S. (2016) Change in dislocation characteristics with cold working in ultralow-carbon martensitic steel, <i>ISIJ International</i> , 56 (9), 1675-1680. DOI: 10.2355/isijinternational.ISIJINT-2016-140
24	Takaki, S., Nanba, S., Imakawa, K., Macadre, A., Yamabe, J., Matsunaga, H. and Matsuoka, S. (2016) Determination of hydrogen compatibility for solution-treated austenitic stainless steels based on a newly proposed nickel-equivalent equation, <i>International Journal of Hydrogen Energy</i> , 41 (33), 15095-15100. DOI: 10.1016/j.ijhydene.2016.06.193
23	Yamabe, J., Yoshizawa, M., Matsunaga, H. and Matsuoka, S. (2016) Effects of hydrogen pressure,

	test frequency and test temperature on fatigue crack growth properties of low-carbon steel in gaseous hydrogen, <i>Procedia Structural Integrity</i> , 2, 525-532. DOI: 10.1016/j.prostr.2016.06.068
22	Åman, M., Okazaki, S., Matsunaga, H., Marquis, G.B. and Remes, H. (2017) Interaction effect of adjacent small defects on the fatigue limit of a medium carbon steel, <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 40 (1), 130-144. DOI: 10.1111/ffe.12482
21	Borchers, C. and Kirchheim, R. (2016) Cold-drawn pearlitic steel wires, <i>Progress in Materials Science</i> , 82, 405-444. DOI: 10.1016/j.pmatsci.2016.06.001
20	Yamabe, J., Takagoshi, D., Matsunaga, H., Matsuoka, S., Ishikawa, T. and Ichigi, T. (2016) High-strength copper-based alloy with excellent resistance to hydrogen embrittlement, <i>International Journal of Hydrogen Energy</i> , 41 (33), 15089-15094. DOI: 10.1016/j.ijhydene.2016.05.156
19	Tu, D., Peng, D., Xu, C.-N. and Yoshida, A. (2016) Mechanoluminescence properties of red-emitting piezoelectric semiconductor MZnOS:Mn <sup>2+</sup> (M = Ca, Ba) with layered structure, <i>Nippon Seramikkusu Kyokai Gakujutsu Ronbunshi/Journal of the Ceramic Society of Japan</i> , 124 (6), 702-705. DOI: 10.2109/jcersj2.15301
18	Mao, S., Purohit, P.K. and Aravas, N. (2016) Mixed finite-element formulations in piezoelectricity and flexoelectricity, <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 472 (2190), 20150879-. DOI: 10.1098/rspa.2015.0879
17	Kuhr, B., Farkas, D. and Robertson, I.M. (2016) Atomistic studies of hydrogen effects on grain boundary structure and deformation response in FCC Ni, <i>Computational Materials Science</i> , 122, 922-101. DOI: 10.1016/j.commat.2016.05.014
16	Tiegel, M.C., Martin, M.L., Lehmberg, A.K., Deutges, M., Borchers, C. and Kirchheim, R. (2016) Crack and blister initiation and growth in purified iron due to hydrogen loading, <i>Acta Materialia</i> , 115, 24-34. DOI: 10.1016/j.actamat.2016.05.034
15	Otsu, T., Tanaka, H. and Sugimura, J. (2016) Effect of Slip on Permeation of Hydrogen into Steel in Cyclic Contact, <i>Tribology Letters</i> , 63 (1), 4. DOI: 10.1007/s11249-016-0691-x
14	Tsuchiyama, T., Inoue, T., Tobata, J., Akama, D. and Takaki, S. (2016) Microstructure and mechanical properties of a medium manganese steel treated with interrupted quenching and intercritical annealing, <i>Scripta Materialia</i> , 122, 36-39. DOI: 10.1016/j.scriptamat.2016.05.019
13	Sanders, J.W., Dadfarnia, M., Stubbins, J.F. and Sofronis, P. (2016) On the fracture of high temperature alloys by creep cavitation under uniaxial or biaxial stress states, <i>Journal of the Mechanics and Physics of Solids</i> , 98, 49-62. DOI: 10.1016/j.jmps.2016.05.019
12	Tsuchiyama, T., Yamamoto, S., Hata, S., Murayama, M., Morooka, S., Akama, D. and Takaki, S. (2016) Plastic deformation and dissolution of $\epsilon$ -Cu particles by cold rolling in an over-aged particle dispersion strengthening Fe-2mass%Cu alloy, <i>Acta Materialia</i> , 113, 48-55. DOI: 10.1016/j.actamat.2016.03.018
11	Sakai, K., Tokumo, Y., Ayame, Y., Shitara, Y., Tanaka, H. and Sugimura, J. (2016) Effect of formulation of li greases on their flow and ball bearing torque, <i>Tribology Online</i> , 11 (2), 168-173. DOI: 10.2474/trol.11.168

10	Nakada, N., Ikeda, K., Shuto, H., Yokoi, T., Tsuchiyama, T., Hata, S., Nakashima, H. and Takaki, T. (2016) Quantification of Large Deformation with Punching in Dual Phase Steel and Change of its' Microstructure – Part II: Local Strain Mapping of Dual Phase Steel by a Combination Technique of Electron Backscatter Diffraction and Digital Image Correlation Methods, <i>Tetsu-to-Hagane</i> , 102 (5), 253-259. DOI: 10.2355/tetsutohagane.TETSU-2015-086
9	Sakairi, M., Igarashi, K. and Nagao, A. (2016) Development of an Area-selective Technique for Electrochemical Hydrogen Detection with Laser Local Activation, <i>ISIJ International</i> , 56 (3), 483-486. DOI: 10.2355/isijinternational.ISIJINT-2015-304
8	Ishikawa, N., Sueyoshi, H. and Nagao, A. (2016) Hydrogen Microprint Analysis on the Effect of Dislocations on Grain Boundary Hydrogen Distribution in Steels, <i>ISIJ International</i> , 56 (3), 413-417. DOI: 10.2355/isijinternational.ISIJINT-2015-329
7	Yagi, K. and Sugimura, J. (2017) Performance of balancing wedge action in textured hydrodynamic pad bearings, <i>ASME Journal of Tribology</i> , 139 (1), 011704. DOI: 10.1115/1.4033128
6	Nakada, N., Ishibashi, Y., Tsuchiyama, T. and Takaki, S. (2016) Self-stabilization of untransformed austenite by hydrostatic pressure via martensitic transformation, <i>Acta Material</i> , 110, 95-102. DOI: 10.1016/j.actamat.2016.03.048
5	Kubota, M. and Komoda, R. (2016) Test machine for fretting in hydrogen environment, <i>Toraibarojisuto/Journal of Japanese Society of Tribologists</i> , 31 (3), 187-190.
4	Papadioti, I., Danas, K. and Aravas, N. (2016) A methodology for the estimation of the effective yield function of isotropic composites, <i>International Journal of Solids and Structures</i> , 87, 120-138. DOI: 10.1016/j.ijsolstr.2016.02.022
3	Wang, S., Martin, M.L., Robertson, I.M. and Sofronis, P. (2016) Effect of hydrogen environment on the separation of Fe grain boundaries, <i>Acta Materialia</i> , 107, 279-288. DOI: 10.1016/j.actamat.2016.01.067
2	Yagi, K., Kajita, S., Izumi, T., Koyamachi, J., Tohyama, M., Saito, K. and Sugimura, J. (2016) Simultaneous Synchrotron X-ray Diffraction, Near-Infrared, and Visible in Situ Observation of Scuffing Process of Steel in Sliding Contact, <i>Tribology Letters</i> , 61 (2), 19. DOI: 10.1007/s11249-015-0636-9
1	Yokoi, T., Shuto, H., Ikeda, K.-I., Nakada, N., Tsuchiyama, T., Ohmura, T., Mine, Y. and Takashima, K. (2016) Quantification of large deformation with punching in dual phase steel and change of its' microstructure - Part I: Proposal of the quantification technique of the punching damage of the dual phase steel, <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 102 (5), 244-252. DOI: 10.2355/tetsutohagane.TETSU-2015-087