Kotaro Ono

List of Publications by Year
in descending order

36 papers	1,028 citations	759233 12 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	788 citing authors

#	Article	IF	Citations
1	Observation of the One-Dimensional Diffusion of Nanometer-Sized Dislocation Loops. Science, 2007, 318, 956-959.	12.6	303
2	Hydrogen detrapping from grain boundaries and dislocations in high purity iron. Acta Metallurgica Et Materialia, 1992, 40, 1357-1364.	1.8	154
3	Microscopic damage of tungsten exposed to deuteriumâ€“helium mixture plasma in PISCES and its impacts on retention property. Journal of Nuclear Materials, 2011, 415, S657-S660.	2.7	132
4	Formation and migration of helium bubbles in Fe and Feâ€“9Cr ferritic alloy. Journal of Nuclear Materials, 2002, 307-311, 1507-1512.	2.7	63
5	Evolution of point defect clusters in pure iron under low-energy He+ irradiation. Journal of Applied Physics, 2001, 89, 4752-4757.	2.5	50
6	Release of helium from irradiation damage in Feâ€“9Cr ferritic alloy. Journal of Nuclear Materials, 2004, 329-333, 933-937.	2.7	41
7	Formation process of dislocation loops in iron under irradiations with low-energy helium, hydrogen ions or high-energy electrons. Journal of Nuclear Materials, 2002, 307-311, 272-277.	2.7	34
8	Quantitative study of Brownian motion of helium bubbles in fcc metals. Journal of Electron Microscopy, 2002, 51, S245-S251.	0.9	29
9	In-situ observation of Brownian motion of helium bubbles along grain boundaries in aluminium. Philosophical Magazine Letters, 1997, 75, 59-64.	1.2	27
10	In-situ observation of the migration and growth of helium bubbles in aluminum. Journal of Nuclear Materials, 1992, 191-194, 1269-1273.	2.7	23
11	Formation and migration of helium bubbles in Feâ€“16Crâ€“17Ni austenitic alloy at high temperature. Journal of Nuclear Materials, 2000, 283-287, 210-214.	2.7	23
12	Effects of cascade damages on the dynamical behavior of helium bubbles in Cu. Journal of Nuclear Materials, 2007, 367-370, 350-354.	2.7	16
13	Release of deuterium from irradiation damage in Feâ€“9Crâ€“2W ferritic alloy irradiated with deuterium ions. Journal of Nuclear Materials, 2014, 452, 46-50.	2.7	11
14	Dynamical process of defect clustering in Ni under the irradiation with low energy helium ions. Journal of Nuclear Materials, 1999, 271-272, 214-219.	2.7	10
15	Intermittent rapid motion of helium bubbles in Cu during irradiation with high energy self-ions. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 114-117.	1.4	10
16	Effects of tungsten on thermal desorption of helium from Feâ€“9Crâ€“2W ferritic alloy irradiated with low energy helium ions. Journal of Nuclear Materials, 2011, 417, 1026-1029.	2.7	10
17	Effects of helium irradiation on degradation of optical properties of single and polycrystalline Mo mirrors for plasma diagnostics. Physica Scripta, 2009, T138, 014065.	2.5	10
18	Dynamical response of helium bubble motion to irradiation with high-energy self-ions in aluminum at high temperature. Philosophical Magazine, 2009, 89, 513-524.	1.6	9

#	Article	IF	Citations
19	Degradation of reflectivity in stainless steel mirrors under irradiation with low-energy helium ions. Journal of Nuclear Materials, 2009, 386-388, 1038-1040.	2.7	8
20	Dynamical interaction of helium bubbles with cascade damage in Feâ€“9Cr ferritic alloy. Journal of Nuclear Materials, 2009, 386-388, 177-180.	2.7	8
21	Elongation Fracture of Metals Containing Pre-introduced Secondary Defects. Radiation Effects and Defects in Solids, 2002, 157, 25-30.	1.2	7
22	Dynamical behavior of helium bubbles in gold during irradiation with high-energy self-ions. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 455-457.	1.4	7
23	Dynamic behavior of helium bubbles at high temperature in Si studied by in situ TEM, STEM-EELS, and TDS. Journal of Applied Physics, 2019, 126, .	2.5	7
24	Difference between helium retention properties in 316L and 304 stainless steels. Journal of Nuclear Materials, 2009, 386-388, 181-184.	2.7	6
25	Degradation of optical properties in Mo mirrors under irradiation with low energy helium and deuterium ions. Journal of Nuclear Materials, 2011, 417, 834-837.	2.7	5
26	Effects of precipitated helium, deuterium or alloy elements on glissile motion of dislocation loops in Feâ€“9Crâ€“2W ferritic alloy. Journal of Nuclear Materials, 2014, 455, 162-166.	2.7	5
27	In-Situ Observation of Brownian Motion and Diffusion of Helium Bubbles in Aluminum. Defect and Diffusion Forum, 1993, 95-98, 335-340.	0.4	4
28	Thermal generation of vacancies from voids in aluminium. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 2565-2575.	0.6	4
29	Temperature dependence of the reflectivity degradation in single and polycrystalline Mo mirrors under the irradiation with low-energy helium ions. Journal of Nuclear Materials, 2011, 415, S1214-S1217.	2.7	3
30	TEMãæ®å´è¦³Ÿã«ã‚ˆã‚‹ãƒ†ãƒªãƒ–ãƒ«ã®å‹•çš„æŒ™å‹•ã®ç”¨¶. Materia Japan, 2006, 45, 106-113.	0.1	3
31	Comparison among the formation processes of extended defects in Si under irradiation with low-energy H+, He+ ions and high-energy electrons. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 76-80.	1.4	2
32	Ellipsometric and electron spectroscopic study of degradation of optical properties in Mo mirror irradiated with deuterium and/or helium ions. Journal of Nuclear Materials, 2015, 463, 952-955.	2.7	2
33	Dynamic behaviour of nanometre-sized defect clusters emitted from an atomic displacement cascade in Au at 50ÂK. Philosophical Magazine, 2017, 97, 2196-2206.	1.6	1
34	In-situ observation of the dynamic behavior of cascade defect clusters formed by irradiation with high-energy self-ions at 50â€¯K in Cu. Journal of Nuclear Materials, 2018, 511, 122-127.	2.7	1
35	Dynamic Observation of the Growth Process of Planar Extended Defects in Germanium under Hydrogen-ion Irradiation. Materia Japan, 2004, 43, 995-995.	0.1	0
36	Change in the Burgers Vector of Perfect Dislocation Loops in Iron. Materia Japan, 2005, 44, 984-984.	0.1	0