# Fa Garner

List of Publications by Year
in descending order



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| 184 papers | 7,282 citations | 70961 41 h-index | 74018 75 g-index |
| 184 all docs | 184 docs citations | 184 times ranked | 2480 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | On the use of SRIM for computing radiation damage exposure. Nuclear Instruments & Methods in Physics Research B, 2013, 310, 75-80. | 0.6 | 1,126 |
| 2 | Comparison of swelling and irradiation creep behavior of fcc-austenitic and bcc-ferritic/martensitic alloys at high neutron exposure. Journal of Nuclear Materials, 2000, 276, 123-142. | 1.3 | 455 |
| 3 | Recent insights on the swelling and creep of irradiated austenitic alloys. Journal of Nuclear Materials, 1984, 122, 459-471. | 1.3 | 168 |
| 4 | Cation disorder in high dose, neutron-irradiated spinel. Journal of Nuclear Materials, 1995, 219, 128-134. | 1.3 | 150 |
| 5 | Impact of the injected interstitial on the correlation of charged particle and neutron-induced radiation damage. Journal of Nuclear Materials, 1983, 117, 177-197. | 1.3 | 141 |
| 6 | Influence of irradiation temperature and dose gradients on the microstructural evolution in neutron-irradiated 316SS. Journal of Nuclear Materials, 2003, 317, 32-45. | 1.3 | 141 |
| 7 | Irradiation creep and swelling of the US fusion heats of HT9 and 9Cr-1Mo to 208 dpa at ~ 400Â°C. Journal of Nuclear Materials, 1994, 212-215, 604-607. | 1.3 | 111 |
| 8 | Effect of defect imbalance on void swelling distributions produced in pure iron irradiated with 3.5 MeV self-ions. Journal of Nuclear Materials, 2014, 453, 176-181. | 1.3 | 104 |
| 9 | The microstructural origins of yield strength changes in aisi 316 during fission or fusion irradiation. Journal of Nuclear Materials, 1981, 104, 803-807. | 1.3 | 98 |
| 10 | Transmutation of Mo, Re, W, Hf, and V in various irradiation test facilities and STARFIRE. Journal of Nuclear Materials, 1994, 212-215, 635-639. | 1.3 | 91 |
| 11 | Ion-induced swelling of ODS ferritic alloy MA957 tubing to 500 dpa. Journal of Nuclear Materials, 2014, 453, 323-333. | 1.3 | 90 |
| 12 | Irradiation creep mechanisms: An experimental perspective. Journal of Nuclear Materials, 1988, 159, 286-309. | 1.3 | 89 |
| 13 | Radiation Damage in Austenitic Steels. , 2012, , 33-95. | | 87 |
| 14 | Swelling as a consequence of gamma prime (Î³') and M23(C, Si)6 formation in neutron irradiated 316 stainless steel. Journal of Nuclear Materials, 1978, 73, 9-19. | 1.3 | 86 |
| 15 | Retention of hydrogen in fcc metals irradiated at temperatures leading to high densities of bubbles or voids. Journal of Nuclear Materials, 2006, 356, 122-135. | 1.3 | 85 |
| 16 | The influence of ion beam rastering on the swelling of self-ion irradiated pure iron at 450ÂÂ°C. Journal of Nuclear Materials, 2015, 465, 343-348. | 1.3 | 82 |
| 17 | Microstructural changes and void swelling of a 12Cr ODS ferritic-martensitic alloy after high-dpa self-ion irradiation. Journal of Nuclear Materials, 2015, 467, 42-49. | 1.3 | 80 |
| 18 | Irradiation creep and swelling from 400 to 600 Â°C of the oxide dispersion strengthened ferritic alloy MA957. Journal of Nuclear Materials, 2004, 329-333, 352-355. | 1.3 | 79 |

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| 19 | The effect of stress on the microstructure of neutron irradiated type 316 stainless steel. Journal of Nuclear Materials, 1977, 66, 301-321. | 1.3 | 76 |
| 20 | Swelling and microstructure of pure Fe and Feâ€“Cr alloys after neutron irradiation to âˆ¼26dpa at 400Â°C. Journal of Nuclear Materials, 2006, 355, 124-130. | 1.3 | 75 |
| 21 | Microstructural analysis of an HT9 fuel assembly duct irradiated in FFTF to 155dpa at 443Â°C. Journal of Nuclear Materials, 2009, 393, 235-241. | 1.3 | 75 |
| 22 | Temperature dependent dispersoid stability in ion-irradiated ferritic-martensitic dual-phase oxide-dispersion-strengthened alloy: Coherent interfaces vs. incoherent interfaces. Acta Materialia, 2016, 116, 29-42. | 3.8 | 73 |
| 23 | Evolution of microstructure in face-centered cubic metals during irradiation. Journal of Nuclear Materials, 1993, 205, 98-117. | 1.3 | 71 |
| 24 | The primary origin of dose rate effects on microstructural evolution of austenitic alloys during neutron irradiation. Journal of Nuclear Materials, 2002, 307-311, 322-326. | 1.3 | 69 |
| 25 | The effect of solute additions on void nucleation. Journal of Nuclear Materials, 1981, 102, 143-150. | 1.3 | 68 |
| 26 | Nano-cavities observed in a 316SS PWR flux thimble tube irradiated to 33 and 70dpa. Journal of Nuclear Materials, 2009, 384, 249-255. | 1.3 | 64 |
| 27 | Factors which determine the swelling behavior of austenitic stainless steels. Journal of Nuclear Materials, 1984, 122, 201-206. | 1.3 | 62 |
| 28 | Why is magnesia spinel a radiation-resistant material?. Journal of Nuclear Materials, 1995, 219, 143-151. | 1.3 | 62 |
| 29 | Effects of neutron irradiation at 450Â°C and 16 dpa on the properties of various commercial copper alloys. Journal of Nuclear Materials, 1985, 133-134, 676-679. | 1.3 | 61 |
| 30 | Modeling injected interstitial effects on void swelling in self-ion irradiation experiments. Journal of Nuclear Materials, 2016, 471, 200-207. | 1.3 | 61 |
| 31 | Irradiation creep and void swelling of austenitic stainless steels at low displacement rates in light water energy systems. Journal of Nuclear Materials, 1997, 251, 252-261. | 1.3 | 60 |
| 32 | Radiation response of alloy T91 at damage levels up to 1000 peak dpa. Journal of Nuclear Materials, 2016, 482, 257-265. | 1.3 | 59 |
| 33 | Determination of helium and hydrogen yield from measurements on pure metals and alloys irradiated by mixed high energy proton and spallation neutron spectra in LANSCE. Journal of Nuclear Materials, 2001, 296, 66-82. | 1.3 | 57 |
| 34 | Neutron irradiation of Feî—¸Mn, Feî—¸Crî—¸Mn and Feî—¸Crî—¸Ni alloys and an explanation of their differences in swelling behavior. Journal of Nuclear Materials, 1987, 148, 294-301. | 1.3 | 52 |
| 35 | Stability of nanosized oxides in ferrite under extremely high dose self ion irradiations. Journal of Nuclear Materials, 2017, 486, 86-95. | 1.3 | 51 |
| 36 | Effect of tube processing methods on microstructure, mechanical properties and irradiation response of 14YWT nanostructured ferritic alloys. Acta Materialia, 2017, 134, 116-127. | 3.8 | 49 |

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| 37 | Hydrogen generation arising from the59Ni(n, p) reaction and its impact on fissionâ€"fusion correlations. Journal of Nuclear Materials, 1996, 233-237, 1530-1534. | 1.3 | 47 |
| 38 | Compositional and temperature dependence of void swelling in model Feâ€"Cr base alloys irradiated in the EBR-II fast reactor. Journal of Nuclear Materials, 2000, 283-287, 164-168. | 1.3 | 47 |
| 39 | Irradiation creep and swelling of AISI 316 to exposures of 130 dpa at 385â€"400Â°C. Journal of Nuclear Materials, 1988, 155-157, 1006-1013. | 1.3 | 46 |
| 40 | Use of double and triple-ion irradiation to study the influence of high levels of helium and hydrogen on void swelling of 8â€"12% Cr ferritic-martensitic steels. Journal of Nuclear Materials, 2016, 468, 264-273. | 1.3 | 44 |
| 41 | Neutron-induced swelling and embrittlement of pure iron and pure nickel irradiated in the BN-350 and BOR-60 fast reactors. Journal of Nuclear Materials, 2008, 375, 359-364. | 1.3 | 43 |
| 42 | Microstructural and microchemical comparisons of AISI 316 irradiated in HFIR and EBR-II. Journal of Nuclear Materials, 1983, 117, 159-176. | 1.3 | 41 |
| 43 | Irradiation creep and swelling of the fusion heats of PCA, HT9 and 9Cr-1Mo irradiated to high neutron fluence. Journal of Nuclear Materials, 1991, 179-181, 577-580. | 1.3 | 41 |
| 44 | The role of phosphorus in the swelling and creep of irradiated austenitic alloys. Journal of Nuclear Materials, 1985, 133-134, 511-514. | 1.3 | 40 |
| 45 | The influence of Mo, Si, P, C, Ti, Cr, Zr and various trace elements on the neutron-induced swelling of AISI 316 stainless steel. Journal of Nuclear Materials, 1988, 155-157, 833-837. | 1.3 | 39 |
| 46 | Irradiation creep and embrittlement behavior of AISI 316 stainless steel at very high neutron fluences. Journal of Nuclear Materials, 1988, 159, 114-121. | 1.3 | 38 |
| 47 | Dimensional stability, optical and elastic properties of MgAl2O4 spinel irradiated in FFTF to very high exposures. Journal of Nuclear Materials, 1994, 212-215, 1087-1090. | 1.3 | 38 |
| 48 | Microstructural stability of an HT-9 fuel assembly duct irradiated in FFTF. Journal of Nuclear Materials, 2011, 414, 237-242. | 1.3 | 37 |
| 49 | Influence of details of reactor history on microstructural development during neutron irradiation. Journal of Nuclear Materials, 1993, 205, 206-218. | 1.3 | 36 |
| 50 | Correlation of radiation-induced changes in mechanical properties and microstructural development of Alloy 718 irradiated with mixed spectra of high-energy protons and spallation neutrons. Journal of Nuclear Materials, 2001, 296, 145-154. | 1.3 | 36 |
| 51 | Microstructure and mechanical properties of ferritic/martensitic steel EP-823 after neutron irradiation to high doses in BOR-60. Journal of Nuclear Materials, 2004, 329-333, 314-318. | 1.3 | 36 |
| 52 | Displacement and helium-induced enhancement of hydrogen and deuterium retention in ion-irradiated 18Cr10NiTi stainless steel. Journal of Nuclear Materials, 2006, 356, 136-147. | 1.3 | 36 |
| 53 | Prediction of swelling of 18Cr10NiTi austenitic steel over a wide range of displacement rates. Journal of Nuclear Materials, 2010, 399, 114-121. | 1.3 | 36 |
| 54 | Irradiation creep and void swelling of two LMR heats of HT9 at â‰¼ 400Â°C and 165 dpa. Journal of Nuclear Materials, 1996, 233-237, 289-292. | 1.3 | 35 |

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| 55 | Severe embrittlement of neutron irradiated austenitic steels arising from high void swelling. Journal of Nuclear Materials, 2009, 386-388, 157-160. | 1.3 | 35 |
| 56 | Irradiation creep and swelling of annealed Type 304L stainless steel at ~ 390Â°C and high neutron fluence. Journal of Nuclear Materials, 1991, 179-181, 581-584. | 1.3 | 34 |
| 57 | Saturation of swelling in neutron-irradiated molybdenum and its dependence on irradiation temperature and starting microstructural state. Journal of Nuclear Materials, 1994, 212-215, 1298-1302. | 1.3 | 34 |
| 58 | Peculiarities of plastic flow involving â€œdeformation wavesâ€•observed during low-temperature tensile tests of highly irradiated 12Cr18Ni10Ti and 08Cr16Ni11Mo3 steels. Journal of Nuclear Materials, 2010, 403, 121-125. | 1.3 | 34 |
| 59 | Microstructural evolution of Alloy 718 at high helium and hydrogen generation rates during irradiation with 600â€“800 MeV protons. Journal of Nuclear Materials, 2000, 283-287, 324-328. | 1.3 | 31 |
| 60 | The synergistic influence of temperature and displacement rate on microstructural evolution of ion-irradiated Feâ€“15Crâ€“16Ni model austenitic alloy. Journal of Nuclear Materials, 2007, 367-370, 930-934. | 1.3 | 31 |
| 61 | Radiation instability of equal channel angular extruded T91 at ultra-high damage levels. Acta Materialia, 2017, 132, 395-404. | 3.8 | 31 |
| 62 | Development of reduced activation alloys for fusion service. Journal of Nuclear Materials, 1985, 133-134, 907-911. | 1.3 | 30 |
| 63 | The influence of silicon on void nucleation in irradiated alloys. Journal of Nuclear Materials, 1985, 133-134, 590-593. | 1.3 | 30 |
| 64 | Ion-induced spinodal-like decomposition of Fe-Ni-Cr invar alloys. Nuclear Instruments & Methods in Physics Research B, 1986, 16, 244-250. | 0.6 | 30 |
| 65 | High swelling rates observed in neutron-irradiated Vî—¸Cr and Vî—¸Si binary alloys. Journal of Nuclear Materials, 1992, 191-194, 948-951. | 1.3 | 30 |
| 66 | High-dose neutron irradiation of MgAl2O4 spinel: effects of post-irradiation thermal annealing on EPR and optical absorption. Journal of Nuclear Materials, 2005, 336, 156-162. | 1.3 | 30 |
| 67 | Effect of self-ion irradiation on the microstructural changes of alloy EK-181 in annealed and severely deformed conditions. Journal of Nuclear Materials, 2017, 487, 96-104. | 1.3 | 30 |
| 68 | The effects of fast reactor irradiation conditions on the tensile properties of two ferritic/martensitic steels. Journal of Nuclear Materials, 2006, 356, 62-69. | 1.3 | 29 |
| 69 | Microchemical and microstructural evolution of AISI 304 stainless steel irradiated in EBR-II at PWR-relevant dpa rates. Journal of Nuclear Materials, 2015, 467, 692-702. | 1.3 | 29 |
| 70 | A third stage of irradiation creep involving its cessation at high neutron exposures. Journal of Nuclear Materials, 1987, 148, 279-287. | 1.3 | 28 |
| 71 | The effect of phosphorus on microstructures of Fe-15Cr-25Ni alloys irradiated with fast neutrons. Journal of Nuclear Materials, 1989, 168, 109-120. | 1.3 | 28 |
| 72 | Very high swelling and embrittlement observed in a Feâ€“18Crâ€“10Niâ€“Ti hexagonal fuel wrapper irradiated in the BOR-60 fast reactor. Journal of Nuclear Materials, 2008, 378, 327-332. | 1.3 | 28 |

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| 73 | Void swelling and irradiation creep in light water reactor (LWR) environments. , 2010, , 308-356. | | 28 |
| 74 | Microstructural characterization and density change of 304 stainless steel reflector blocks after long-term irradiation in EBR-II. Journal of Nuclear Materials, 2015, 465, 516-530. | 1.3 | 28 |
| 75 | Swelling-induced stresses in ion-bombarded surfaces: Effect of crystalline orientation. Journal of Nuclear Materials, 1979, 85-86, 583-589. | 1.3 | 27 |
| 76 | Optical and dielectric properties of neutron irradiated MgAl2O4 spinels. Journal of Nuclear Materials, 1996, 233-237, 1336-1339. | 1.3 | 27 |
| 77 | Swelling and void-induced embrittlement of austenitic stainless steel irradiated to 73â€“82 dpa at 335â€“365Â°C. Journal of Nuclear Materials, 1998, 258-263, 1613-1617. | 1.3 | 27 |
| 78 | Influence of high dose neutron irradiation on microstructure of EP-450 ferriticâ€“martensitic steel irradiated in three Russian fast reactors. Journal of Nuclear Materials, 2004, 329-333, 319-323. | 1.3 | 27 |
| 79 | Response of Fe-Cr-Mn austenitic alloys to thermal aging and neutron irradiation. Journal of Nuclear Materials, 1988, 155-157, 870-876. | 1.3 | 26 |
| 80 | Shear punch and tensile measurements of mechanical property changes induced in various austenitic alloys by high-energy mixed proton and neutron irradiation at low temperatures. Journal of Nuclear Materials, 2000, 283-287, 418-422. | 1.3 | 26 |
| 81 | Phase instabilities in irradiated simple Fe-Cr-Mn low activation alloys. Journal of Nuclear Materials, 1988, 155-157, 877-882. | 1.3 | 25 |
| 82 | Influence of silicon on swelling and microstructure in Russian austenitic stainless steel EI-847 irradiated to high neutron doses. Journal of Nuclear Materials, 2008, 378, 17-24. | 1.3 | 25 |
| 83 | Development of a nondestructive inspection method for irradiation-induced microstructural evolution of thick 304 stainless steel blocks. Journal of Nuclear Materials, 2013, 440, 500-507. | 1.3 | 25 |
| 84 | Synergistic effects of helium and hydrogen on self-ion-induced swelling of austenitic 18Cr10NiÐ¢i stainless steel. Journal of Nuclear Materials, 2013, 442, S817-S820. | 1.3 | 25 |
| 85 | Swelling and microstructure of high purity nickel irradiated with fast neutrons in EBR-II. Journal of Nuclear Materials, 1992, 191-194, 1295-1299. | 1.3 | 24 |
| 86 | Microstructure and mechanical properties of austenitic stainless steel 12X18H9T after neutron irradiation in the pressure vessel of BR-10 fast reactor at very low dose rates. Journal of Nuclear Materials, 2006, 359, 41-49. | 1.3 | 24 |
| 87 | Anomalously large deformation of 12Cr18Ni10Ti austenitic steel irradiated to 55dpa at 310Â°C in the BN-350 reactor. Journal of Nuclear Materials, 2009, 386-388, 273-276. | 1.3 | 24 |
| 88 | The effect of solid transmutation products on swelling in 316 stainless steel. Journal of Nuclear Materials, 1981, 104, 999-1003. | 1.3 | 23 |
| 89 | The influence of composition on microstructural evolution and mechanical properties of irradiated Feî—¸Niî—¸Cr ternaries. Journal of Nuclear Materials, 1985, 133-134, 594-598. | 1.3 | 23 |
| 90 | Void swelling at low displacement rates in annealed 12X18HgT stainless steel at 4â€“56 dpa and 280â€“332 Â°C. Journal of Nuclear Materials, 2002, 307-311, 339-342. | 1.3 | 23 |

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| 91 | Synergistic influence of displacement rate and helium/dpa ratio on swelling of Feâ€“(9, 12)Cr binary alloys in FFTF at â¼400 Â°C. Journal of Nuclear Materials, 2004, 329-333, 1008-1012. | 1.3 | 23 |
| 92 | Magnetic phase formation in irradiated austenitic alloys. Journal of Nuclear Materials, 2014, 448, 294-300. | 1.3 | 23 |
| 93 | Influence of injected interstitials on the void swelling in two structural variants of 304L stainless steel induced by self-ion irradiation at 500 Â°C. Nuclear Instruments & Methods in Physics Research B, 2017, 409, 323-327. | 0.6 | 23 |
| 94 | High dose effects in neutron irradiated face-centered cubic metals. Journal of Nuclear Materials, 1993, 206, 230-248. | 1.3 | 22 |
| 95 | Irradiation creep and density changes observed in MA957 pressurized tubes irradiated to doses of 40â€“110dpa at 400â€“750Â°C in FFTF. Journal of Nuclear Materials, 2012, 428, 170-175. | 1.3 | 22 |
| 96 | Influence of neutron spectra on the radiation-induced evolution of AISI 316. Journal of Nuclear Materials, 1982, 108-109, 347-358. | 1.3 | 21 |
| 97 | A SIPA-based theory of irradiation creep in the low swelling rate regime. Journal of Nuclear Materials, 1992, 191-194, 1309-1312. | 1.3 | 21 |
| 98 | Dose dependence of neutron irradiation effects on MgAl2O4 spinels. Journal of Nuclear Materials, 1998, 258-263, 1902-1907. | 1.3 | 21 |
| 99 | Influence of radiation-induced voids and bubbles on physical properties of austenitic structural alloys. Journal of Nuclear Materials, 2004, 329-333, 617-620. | 1.3 | 21 |
| 100 | Accelerated materials evaluation for nuclear applications. Journal of Nuclear Materials, 2017, 488, 46-62. | 1.3 | 21 |
| 101 | Helium bubble formation and swelling in metals. Journal of Nuclear Materials, 1981, 104, 981-986. | 1.3 | 20 |
| 102 | Irradiation creep of various ferritic alloys irradiated at â¼400Â°C in the PFR and FFTF reactors. Journal of Nuclear Materials, 1998, 258-263, 1163-1166. | 1.3 | 20 |
| 103 | Microstructural investigation of swelling dependence on nickel content in fast neutron-irradiated Fe-Cr-Ni austenitic ternaries. Journal of Nuclear Materials, 1991, 179-181, 546-549. | 1.3 | 19 |
| 104 | Factors which control the swelling of Feî—¸Crî—¸Ni ternary austenitic alloys. Journal of Nuclear Materials, 1997, 245, 124-130. | 1.3 | 19 |
| 105 | Characterization of 08Cr16Ni11Mo3 stainless steel irradiated in the BN-350 reactor. Journal of Nuclear Materials, 2004, 329-333, 625-629. | 1.3 | 19 |
| 106 | Prediction of void swelling in the baffle ring of WWER-1000 reactors for service life of 30â€“60 years. Journal of Nuclear Materials, 2013, 437, 415-423. | 1.3 | 19 |
| 107 | Swelling behavior of titanium-modified alloys in EBR-II. Journal of Nuclear Materials, 1985, 133-134, 535-539. | 1.3 | 18 |
| 108 | Production bias: a proposed modification of the driving force for void swelling under cascade damage conditions. Journal of Nuclear Materials, 1992, 191-194, 1224-1228. | 1.3 | 18 |

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| 109 | Relationship between swelling and irradiation creep in cold-worked PCA stainless steel irradiated to ~ 178 dpa at ~ 400Â°C. Journal of Nuclear Materials, 1994, 212-215, 509-513. | 1.3 | 18 |
| 110 | The strong influence of displacement rate on void swelling in variants of Feâ€“16Crâ€“15Niâ€“3Mo austenitic stainless steel irradiated in BN-350 and BOR-60. Journal of Nuclear Materials, 2004, 329-333, 621-624. | 1.3 | 18 |
| 111 | Influence of high dose neutron irradiation at 385 and 750Â°C on the microhardness of MgAl2O4 spinel. Journal of Nuclear Materials, 1994, 212-215, 1096-1100. | 1.3 | 17 |
| 112 | Void swelling of AISI 321 analog stainless steel irradiated at low dpa rates in the BN-350 reactor. Journal of Nuclear Materials, 2007, 367-370, 990-994. | 1.3 | 17 |
| 113 | Comparison of the swelling and the microstructural/microchemical evolution of AISI 316 irradiated in EBR-II and HFIR. Journal of Nuclear Materials, 1981, 104, 993-997. | 1.3 | 16 |
| 114 | The complex role of phosphorus in the neutron-induced swelling of titanium-modified austenitic stainless steels. Journal of Nuclear Materials, 1992, 187, 223-229. | 1.3 | 16 |
| 115 | Determination of the creep compliance and creep-swelling coupling coefficient for neutron irradiated titanium-modified stainless steels at â‰¼ 400Â°C. Journal of Nuclear Materials, 1992, 191-194, 803-807. | 1.3 | 16 |
| 116 | Silicon's role in determining swelling in neutron-irradiated Feî—¸Niî—¸Crî—¸Si alloys. Journal of Nuclear Materials, 1992, 191-194, 1244-1247. | 1.3 | 16 |
| 117 | An assessment of the 59Ni isotopic tailoring technique to study the influence of ratio. Journal of Nuclear Materials, 1994, 212-215, 492-497. | 1.3 | 16 |
| 118 | The dependence of irradiation creep in austenitic alloys on displacement rate and helium to dpa ratio. Journal of Nuclear Materials, 1998, 258-263, 1718-1724. | 1.3 | 16 |
| 119 | The dependence of helium generation rate on nickel content of Feâ€“Crâ€“Ni alloys irradiated to high dpa levels in EBR-II. Journal of Nuclear Materials, 1998, 258-263, 1740-1744. | 1.3 | 16 |
| 120 | Microstructure and swelling of neutron irradiated nickel and binary nickel alloys. Journal of Nuclear Materials, 2013, 442, S809-S812. | 1.3 | 16 |
| 121 | Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel. Journal of Nuclear Materials, 1984, 122, 242-245. | 1.3 | 15 |
| 122 | Dimensional change correlations for 20% cold-worked AISI 316 stainless steel for fusion applications. Journal of Nuclear Materials, 1988, 155-157, 845-849. | 1.3 | 15 |
| 123 | The strong influence of temper annealing conditions on the neutron-induced swelling of cold-worked austenitic steels. Journal of Nuclear Materials, 1992, 189, 201-209. | 1.3 | 15 |
| 124 | Swelling, irradiation creep and growth of pure rhenium irradiated with fast neutrons at 1030â€“1330Â°C. Journal of Nuclear Materials, 2000, 283-287, 380-385. | 1.3 | 15 |
| 125 | Influence of cold work to increase swelling of pure iron irradiated in the BR-10 reactor to â‰¼6 and â‰¼25 dpa at â‰¼400Â°C. Journal of Nuclear Materials, 2000, 283-287, 157-160. | 1.3 | 15 |
| 126 | Influence of carbon addition on neutron-induced void swelling of Feâ€“15Crâ€“16Niâ€“0.25Ti model alloy. Journal of Nuclear Materials, 2007, 367-370, 897-903. | 1.3 | 15 |

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| 127 | Tensile behavior and swelling of ternary austenitic alloys irradiated in different neutron spectra. Journal of Nuclear Materials, 1991, 179-181, 558-562. | 1.3 | 14 |
| 128 | High-sensitivity quadrupole mass spectometry system for the determination of hydrogen in irradiated materials. Journal of Nuclear Materials, 2000, 283-287, 1006-1010. | 1.3 | 14 |
| 129 | Helium and hydrogen generation in pure metals irradiated with high-energy protons and spallation neutrons in LANSCE. Journal of Nuclear Materials, 2002, 307-311, 1471-1477. | 1.3 | 14 |
| 130 | Microstructural defect evolution in neutron â€“ Irradiated 12Cr18Ni9Ti stainless steel during subsequent isochronous annealing. Journal of Nuclear Materials, 2013, 439, 148-158. | 1.3 | 14 |
| 131 | Impact of composition modification induced by ion beam Coulomb-drag effects on the nanoindentation hardness of HT9. Nuclear Instruments & Methods in Physics Research B, 2019, 444, 68-73. | 0.6 | 14 |
| 132 | The impact of swelling on fusion reactor first wall lifetime. Journal of Nuclear Materials, 1984, 122, 230-235. | 1.3 | 13 |
| 133 | Synergistic effects of helium and other variables on microstructure change in neutron-irradiated Fe-Ni-Cr alloys doped with 59Ni. Journal of Nuclear Materials, 1991, 179-181, 511-514. | 1.3 | 13 |
| 134 | The influence of helium on mechanical properties of model austenitic alloys, determined using 59Ni isotopic tailoring and fast reactor irradiation. Journal of Nuclear Materials, 1992, 191-194, 1239-1243. | 1.3 | 13 |
| 135 | The influence of neutron spectrum and irradiation history on microstructural evolution in fusion structural materials. Journal of Nuclear Materials, 1998, 258-263, 130-139. | 1.3 | 13 |
| 136 | Simulated spatial and temporal dependence of chromium concentration in pure Fe and Fe 14%Cr under high dpa ion irradiation. Journal of Nuclear Materials, 2016, 479, 23-35. | 1.3 | 13 |
| 137 | Radiation response of oxide-dispersion-strengthened alloy MA956 after self-ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2017, 409, 259-263. | 0.6 | 13 |
| 138 | The relative influence of helium/dpa ratio and other variables on neutron-induced swelling of Fe-Ni-Cr alloys at 495Â°C and 14 dpa. Journal of Nuclear Materials, 1991, 179-181, 523-525. | 1.3 | 12 |
| 139 | Influence of cold-work and phosphorus content on neutron-induced swelling of ternary Fe-Cr-Ni alloys. Journal of Nuclear Materials, 1993, 199, 132-142. | 1.3 | 12 |
| 140 | Cross-sectional TEM and X-ray examination of radiation-induced stress relaxation of peened stainless steel surfaces. Journal of Nuclear Materials, 2005, 336, 314-322. | 1.3 | 12 |
| 141 | The influence of cold-work level on the irradiation creep and swelling of AISI 316 stainless steel irradiated as pressurized tubes in the EBR-II fast reactor. Journal of Nuclear Materials, 2007, 367-370, 954-959. | 1.3 | 12 |
| 142 | Swelling and creep observed in AISI 304 fuel pin cladding from three MOX fuel assemblies irradiated in EBR-II. Journal of Nuclear Materials, 2011, 413, 53-61. | 1.3 | 12 |
| 143 | Analysis of structure and deformation behavior of AISI 316L tensile specimens from the second operational target module at the Spallation Neutron Source. Journal of Nuclear Materials, 2016, 468, 210-220. | 1.3 | 12 |
| 144 | The effect of helium on microstructural evolution and mechanical properties of austenitic steels as determined by spectral tailoring experiments. Journal of Nuclear Materials, 1992, 191-194, 1234-1238. | 1.3 | 11 |

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| 145 | Elastic stability of high dose neutron irradiated spinel. Journal of Nuclear Materials, 1995, 219, 139-142. | 1.3 | 11 |
| 146 | Impact of transmutation issues on interpretation of data obtained from fast reactor irradiation experiments. Journal of Nuclear Materials, 2004, 329-333, 1147-1150. | 1.3 | 11 |
| 147 | The mechanism of stress influence on swelling of 20% cold-worked 16Cr15Ni2MoTiMnSi steel. Journal of Nuclear Materials, 2007, 367-370, 925-929. | 1.3 | 11 |
| 148 | Anisotropic swelling observed during stress-free reirradiation of AISI 304 tubes previously irradiated under stress. Journal of Nuclear Materials, 2009, 386-388, 249-253. | 1.3 | 11 |
| 149 | Saturation of proton-induced swelling in AISI 316. Journal of Nuclear Materials, 1983, 117, 234-238. | 1.3 | 10 |
| 150 | Stability of the radiation-induced Î³' phase in 316 stainless steel. Journal of Nuclear Materials, 1983, 116, 267-271. | 1.3 | 10 |
| 151 | Influence of transmutation and high neutron fluence on materials used in fission-fusion correlation experiments. Journal of Nuclear Materials, 1990, 174, 229-239. | 1.3 | 10 |
| 152 | Isotopic tailoring with 59Ni to study the influence of helium/dpa ratio on tensile property changes. Journal of Nuclear Materials, 1991, 179-181, 554-557. | 1.3 | 10 |
| 153 | Flux and composition dependence of irradiation creep of austenitic alloys irradiated in PFR at âˆ¼420Â°C. Journal of Nuclear Materials, 1998, 258-263, 1606-1612. | 1.3 | 10 |
| 154 | Effects of dpa rate on swelling in neutron-irradiated Feâ€“Cr and Feâ€“Crâ€“Mo alloys. Journal of Nuclear Materials, 2011, 417, 944-948. | 1.3 | 10 |
| 155 | Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel. Journal of Nuclear Materials, 1984, 122, 106-110. | 1.3 | 9 |
| 156 | Application of high fluence fast reactor data to fusion-relevant materials problems. Journal of Nuclear Materials, 1985, 133-134, 113-118. | 1.3 | 9 |
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