# Hyosim Kim

List of Publications by Year
in descending order

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| 37 | 425 | 840119 11 | 752256 20 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 40 | 40 | 40 | 378 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Radiation response of alloy T91 at damage levels up to 1000 peak dpa. Journal of Nuclear Materials, 2016, 482, 257-265. | 1.3 | 59 |
| 2 | Beam-contamination-induced compositional alteration and its neutron-atypical consequences in ion simulation of neutron-induced void swelling. Materials Research Letters, 2017, 5, 478-485. | 4.1 | 45 |
| 3 | Standardization of accelerator irradiation procedures for simulation of neutron induced damage in reactor structural materials. Nuclear Instruments & Methods in Physics Research B, 2017, 409, 251-254. | 0.6 | 34 |
| 4 | Radiation response of Ti2AlC MAX phase coated Zircaloy-4 for accident tolerant fuel cladding. Journal of Nuclear Materials, 2019, 523, 26-32. | 1.3 | 33 |
| 5 | Radiation instability of equal channel angular extruded T91 at ultra-high damage levels. Acta Materialia, 2017, 132, 395-404. | 3.8 | 31 |
| 6 | Interface reactions and mechanical properties of FeCrAl-coated Zircaloy-4. Journal of Nuclear Materials, 2019, 519, 57-63. | 1.3 | 26 |
| 7 | Swelling resistance of advanced austenitic alloy A709 and its comparison with 316 stainless steel at high damage levels. Journal of Nuclear Materials, 2019, 527, 151818. | 1.3 | 23 |
| 8 | Ni coating on 316L stainless steel using cage plasma treatment: Feasibility and swelling studies. Journal of Nuclear Materials, 2020, 540, 152385. | 1.3 | 18 |
| 9 | 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 |
| 10 | 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 |
| 11 | Irradiation-induced swelling of pure chromium with 5 MeV Fe ions in the temperature range 450â€“650ÂÂ°C. Journal of Nuclear Materials, 2021, 543, 152585. | 1.3 | 12 |
| 12 | Comparison of void swelling of ferritic-martensitic and ferritic HT9 alloys after high-dose self-ion irradiation. Materials Characterization, 2021, 173, 110908. | 1.9 | 11 |
| 13 | Dispersoid stability in ion irradiated oxide-dispersion-strengthened alloy. Journal of Nuclear Materials, 2018, 509, 504-512. | 1.3 | 10 |
| 14 | Radiation response of a Feâ€“20Crâ€“25Ni austenitic stainless steel under Fe2+ irradiation at 500ÂÂ°C. Materialia, 2020, 9, 100542. | 1.3 | 8 |
| 15 | Sizing up mechanical testing: Comparison of microscale and mesoscale mechanical testing techniques on a FeCrAl welded tube. Journal of Materials Research, 2020, 35, 2817-2830. | 1.2 | 8 |
| 16 | Nitrogen ion implantation into pure iron for formation of surface nitride layer. Nuclear Instruments & Methods in Physics Research B, 2019, 451, 10-13. | 0.6 | 7 |
| 17 | Radiation-Enhanced Anion Transport in Hematite. Chemistry of Materials, 2021, 33, 2307-2318. | 3.2 | 7 |
| 18 | Void swelling of conventional and composition engineered HT9 alloys after high-dose self-ion irradiation. Journal of Nuclear Materials, 2022, 560, 153492. | 1.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A pathway to synthesizing single-crystal Fe and FeCr films. Surface and Coatings Technology, 2020, 403, 126346. | 2.2 | 6 |
| 20 | Radiation response of FeCrAl-coated Zircaloy-4. Journal of Nuclear Materials, 2020, 536, 152175. | 1.3 | 6 |
| 21 | Helium retention, bubble superlattice formation and surface blistering in helium-irradiated tungsten. Journal of Nuclear Materials, 2021, 545, 152722. | 1.3 | 6 |
| 22 | Microstructural and micro-mechanical analysis of 14YWT nanostructured Ferritic alloy after varying thermo-mechanical processing paths into tubing. Materials Characterization, 2021, 171, 110744. | 1.9 | 5 |
| 23 | Radiation Enhanced Anion Diffusion in Chromia. Journal of Physical Chemistry C, 2021, 125, 27820-27827. | 1.5 | 5 |
| 24 | Effect of Helium on Dispersoid Evolution under Self-Ion Irradiation in A Dual-Phase 12Cr Oxide-Dispersion-Strengthened Alloy. Materials, 2019, 12, 3343. | 1.3 | 4 |
| 25 | The Effect of Internal Free Surfaces on Void Swelling of Irradiated Pure Iron Containing Subsurface Trenches. Crystals, 2019, 9, 252. | 1.0 | 4 |
| 26 | ZrN Phase Formation, Hardening and Nitrogen Diffusion Kinetics in Plasma Nitrided Zircaloy-4. Materials, 2021, 14, 3572. | 1.3 | 4 |
| 27 | Stable, Ductile and Strong Ultrafine HT-9 Steels via Large Strain Machining. Nanomaterials, 2021, 11, 2538. | 1.9 | 3 |
| 28 | Carbon Contamination, Its Consequences and Its Mitigation in Ion-Simulation of Neutron-Induced Swelling of Structural Metals. Minerals, Metals and Materials Series, 2018, , 681-693. | 0.3 | 2 |
| 29 | Ion cutting of amorphous metals by using helium ion implantation. Nuclear Instruments & Methods in Physics Research B, 2019, 451, 1-5. | 0.6 | 2 |
| 30 | Oxide dispersoid coherency of a ferritic-martensitic 12Cr oxide-dispersion-strengthened alloy under self-ion irradiation. Journal of Nuclear Materials, 2021, 544, 152671. | 1.3 | 2 |
| 31 | Carbon Contamination, Its Consequences and Its Mitigation in Ion-Simulation of Neutron-Induced Swelling of Structural Metals. Minerals, Metals and Materials Series, 2019, , 681-693. | 0.3 | 2 |
| 32 | Demonstration of a High-Throughput Tensile Testing Technique Using Femtosecond Laser-Fabricated Tensile Bars in AISI 316 and Additively Manufactured Grade 91 Steel. Jom, 2021, 73, 4240-4247. | 0.9 | 2 |
| 33 | Continuous Monitoring of Pure Fe Corrosion in Lead-Bismuth Eutectic Under Irradiation with Proton-Induced X-ray Emission Spectroscopy. Jom, 2021, 73, 4041-4050. | 0.9 | 2 |
| 34 | A Novel Microshear Geometry for Exploring the Influence of Void Swelling on the Mechanical Properties Induced by MeV Heavy Ion Irradiation. Materials, 2022, 15, 4253. | 1.3 | 2 |
| 35 | Evaluation of the Monte Carlo method (KTMAN-2) in fluoroscopic dosimetry and comparison with experiment. Journal of the Korean Physical Society, 2014, 64, 936-940. | 0.3 | 1 |
| 36 | Influence of Irradiation-Induced Defects on Anion Transport in Epitaxial Cr<sub>2</sub>O<sub>3</sub>. Microscopy and Microanalysis, 2021, 27, 2904-2905. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Limitations of Thermal Stability Analysis via In-Situ TEM/Heating Experiments. Nanomaterials, 2021, 11, 2541. | 1.9 | 0 |