

# Yutai Katoh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2152496/publications.pdf>

Version: 2024-02-01

401  
papers

13,829  
citations

30551

56  
h-index

40945

97  
g-index

491  
all docs

491  
docs citations

491  
times ranked

5023  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Characterization and qualification of neutron radiation effects – Summary of Japan-USA Joint Projects for 40 years –. Journal of Nuclear Materials, 2022, 560, 153494.                                   | 1.3 | 3         |
| 2  | Neutron irradiation-enhanced grain growth in tungsten and tungsten alloys. Journal of Alloys and Compounds, 2022, 901, 163419.   | 2.8 | 21        |
| 3  | Mechanisms of stored energy release in silicon carbide materials neutron-irradiated at elevated temperatures. Materials and Design, 2022, 214, 110413.   | 3.3 | 3         |
| 4  | Additive manufacturing of ceramic materials for energy applications: Road map and opportunities. Journal of the European Ceramic Society, 2022, 42, 3049-3088.   | 2.8 | 62        |
| 5  | Thermo-Mechanical Distortion of Tungsten-Coated Steel During High Heat Flux Testing Using Plasma Arc Lamps. Fusion Science and Technology, 2022, 78, 291-317.  | 0.6 | 1         |
| 6  | Neutron irradiation of tungsten in hydrogen environment at HFIR. Fusion Engineering and Design, 2022, 178, 113089.   | 1.0 | 0         |
| 7  | Qualitative and quantitative analysis of neutron irradiation effects in SiC/SiC composites using X-ray computed tomography. Composites Part B: Engineering, 2022, 238, 109896.                           | 5.9 | 19        |
| 8  | Anisotropic thermal diffusivity and conductivity in SiC/SiC tubes studied by infrared imaging and X-ray computed tomography. Ceramics International, 2022, 48, 21717-21727.                              | 2.3 | 10        |
| 9  | Failure evaluation of neutron-irradiated SiC/SiC composites by underwater acoustic emission. Journal of Nuclear Materials, 2022, 566, 153787.  | 1.3 | 5         |
| 10 | A review on additive manufacturing of refractory tungsten and tungsten alloys. Additive Manufacturing, 2022, 58, 103009.   | 1.7 | 5         |
| 11 | Electric current-assisted direct joining of silicon carbide. Journal of the European Ceramic Society, 2021, 41, 3072-3081.   | 2.8 | 15        |
| 12 | Electron tomography of unirradiated and irradiated nuclear graphite. Journal of Nuclear Materials, 2021, 545, 152649.  | 1.3 | 9         |
| 13 | Additive manufacturing of silicon carbide for nuclear applications. Journal of Nuclear Materials, 2021, 543, 152577.   | 1.3 | 54        |
| 14 | Advanced synchrotron characterization techniques for fusion materials science. Journal of Nuclear Materials, 2021, 543, 152574.  | 1.3 | 9         |
| 15 | Hydrothermal Corrosion of First-Generation Dual-Purpose Coatings on Silicon Carbide for Accident-Tolerant Fuel Cladding. Journal of Nuclear Materials, 2021, 544, 152695.                                | 1.3 | 17        |
| 16 | Effects of helium on irradiation response of reduced-activation ferritic-martensitic steels: Using nickel isotopes to simulate fusion neutron response. Journal of Nuclear Materials, 2021, 545, 152634. | 1.3 | 3         |
| 17 | Helium effects on the surface and subsurface evolutions in single-crystalline tungsten. Acta Materialia, 2021, 203, 116420.  | 3.8 | 17        |
| 18 | Thermal diffusivity of irradiated tungsten and tungsten-rhenium alloys. Journal of Nuclear Materials, 2021, 543, 152594.   | 1.3 | 13        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Adhesion, structure, and mechanical properties of Cr HiPIMS and cathodic arc deposited coatings on SiC. <i>Surface and Coatings Technology</i> , 2021, 410, 126939.   | 2.2 | 13        |
| 20 | Segregation behavior and phase instability of Eurofer97 after neutron irradiation to 72Ådpa. <i>Journal of Nuclear Materials</i> , 2021, 547, 152834.   | 1.3 | 9         |
| 21 | Conceptual Design of HFIR Irradiation Experiment for Material Compatibility Study on Liquid Sn Divertor. <i>Plasma and Fusion Research</i> , 2021, 16, 2405040-2405040.   | 0.3 | 1         |
| 22 | X-ray characterization of anisotropic defect formation in SiC under irradiation with applied stress. <i>Scripta Materialia</i> , 2021, 197, 113785.   | 2.6 | 6         |
| 23 | Technological aspects in blanket design: Effects of micro-alloying and thermo-mechanical treatments of EUROFER97 type steels after neutron irradiation. <i>Fusion Engineering and Design</i> , 2021, 168, 112645. | 1.0 | 10        |
| 24 | The status of the Japanese material properties handbook and the challenge to facilitate structural design criteria for DEMO in-vessel components. <i>Nuclear Fusion</i> , 2021, 61, 116054.                       | 1.6 | 14        |
| 25 | Fiber/matrix debonding evaluation of SiCf/SiC composites using micropillar compression technique. <i>Composites Part B: Engineering</i> , 2021, 224, 109189.  | 5.9 | 18        |
| 26 | Processing of tungsten through electron beam melting. <i>Journal of Nuclear Materials</i> , 2021, 555, 153041.  | 1.3 | 27        |
| 27 | Thermal diffusivity and thermal conductivity of SiC composite tubes: the effects of microstructure and irradiation. <i>Journal of Nuclear Materials</i> , 2021, 557, 153217.                                      | 1.3 | 13        |
| 28 | Effects of sample bias on adhesion of magnetron sputtered Cr coatings on SiC. <i>Journal of Nuclear Materials</i> , 2021, 556, 153251.  | 1.3 | 5         |
| 29 | Atomic and microstructural origins of stored energy release in neutron-irradiated silicon carbide. <i>Physical Review Materials</i> , 2021, 5, .  | 0.9 | 2         |
| 30 | Irradiation hardening and ductility loss of Eurofer97 steel variants after neutron irradiation to ITER-TBM relevant conditions. <i>Fusion Engineering and Design</i> , 2021, 173, 112935.                         | 1.0 | 5         |
| 31 | A logical approach for zero-rupture Fully Ceramic Microencapsulated (FCM) fuels via pressure-assisted sintering route. <i>Journal of Nuclear Materials</i> , 2020, 531, 151987.                                   | 1.3 | 16        |
| 32 | Neutron irradiation-induced microstructure damage in ultra-high temperature ceramic TiC. <i>Acta Materialia</i> , 2020, 186, 1-10.  | 3.8 | 30        |
| 33 | Progress in development of SiC-based joints resistant to neutron irradiation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1023-1034.   | 2.8 | 19        |
| 34 | Neutron irradiation effects on the mechanical properties of powder metallurgical processed tungsten alloys. <i>Journal of Nuclear Materials</i> , 2020, 529, 151910.  | 1.3 | 23        |
| 35 | Determination of neutron irradiation temperatures of SiC using electrical resistivity method. <i>Journal of Nuclear Materials</i> , 2020, 540, 152370.  | 1.3 | 8         |
| 36 | Design and strategy for next-generation silicon carbide composites for nuclear energy. <i>Journal of Nuclear Materials</i> , 2020, 540, 152375.   | 1.3 | 24        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Effects of carbonitrides and carbides on microstructure and properties of castable nanostructured alloys. Journal of Nuclear Materials, 2020, 540, 152376.                                      | 1.3 | 21        |
| 38 | Effects of HFIR neutron irradiation on fracture toughness properties of standard and Ni-doped F82H. Journal of Nuclear Materials, 2020, 542, 152501.  | 1.3 | 5         |
| 39 | Tensile properties of powder-metallurgical-processed tungsten alloys after neutron irradiation near recrystallization temperatures. Journal of Nuclear Materials, 2020, 542, 152505.            | 1.3 | 16        |
| 40 | Evaluation of the effects of neutron irradiation on first-generation corrosion mitigation coatings on SiC for accident-tolerant fuel cladding. Journal of Nuclear Materials, 2020, 536, 152203. | 1.3 | 29        |
| 41 | The effects of neutron and ionizing irradiation on the aqueous corrosion of SiC. Journal of Nuclear Materials, 2020, 536, 152190.   | 1.3 | 17        |
| 42 | Non-contact strain evaluation for miniature tensile specimens of neutron-irradiated F82H by digital image correlation. Fusion Engineering and Design, 2020, 157, 111663.                        | 1.0 | 13        |
| 43 | Plasma-arc lamp high heat flux cycling exposure of neutron irradiated tungsten materials. Physica Scripta, 2020, T171, 014077.  | 1.2 | 0         |
| 44 | Perspectives on the FESAC transformative enabling capabilities: Priorities, plans, and Status. Fusion Engineering and Design, 2020, 155, 111529.  | 1.0 | 1         |
| 45 | Impact of control blade insertion on the deformation behavior of SiC-SiC channel boxes in BWRs. Nuclear Engineering and Design, 2020, 363, 110621.  | 0.8 | 7         |
| 46 | Protection of graphite from salt and gas permeation in molten salt reactors. Journal of Nuclear Materials, 2020, 534, 152119.   | 1.3 | 24        |
| 47 | Properties of Zirconium Carbide for Nuclear Fuel Applications. , 2020, , 419-456.   |     | 2         |
| 48 | Radiation Effects in SiC and SiCâ€™SiC. , 2020, , 437-461.  |     | 3         |
| 49 | Chemical compatibility of silicon carbide in molten fluoride salts for the fluoride salt-cooled high temperature reactor. Journal of Nuclear Materials, 2019, 524, 119-134.                     | 1.3 | 15        |
| 50 | Tungsten Microstructural Results from the Gadolinium-Shielded 19J Irradiation Experiment. Microscopy and Microanalysis, 2019, 25, 1600-1601.  | 0.2 | 0         |
| 51 | Silicon carbide and its composites for nuclear applications â€™ Historical overview. Journal of Nuclear Materials, 2019, 526, 151849.   | 1.3 | 121       |
| 52 | Characterization of PVD Cr, CrN, and TiN coatings on SiC. Journal of Nuclear Materials, 2019, 527, 151781.  | 1.3 | 26        |
| 53 | Pair distribution function analysis of neutron-irradiated silicon carbide. Journal of Nuclear Materials, 2019, 527, 151798.   | 1.3 | 4         |
| 54 | Deuterium retention in advanced steels for fusion reactor structural application. Journal of Nuclear Materials, 2019, 516, 144-151.   | 1.3 | 8         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | A 6 MW/m <sup>2</sup> High Heat Flux Testing Facility of Irradiated Materials Using Infrared Plasma-Arc Lamps. <i>Fusion Science and Technology</i> , 2019, 75, 690-701.   | 0.6 | 4         |
| 56 | Critical Exploration of Liquid Metal Plasma-Facing Components in a Fusion Nuclear Science Facility. <i>Fusion Science and Technology</i> , 2019, 75, 886-917.  | 0.6 | 27        |
| 57 | Elastic moduli reduction in SiC-SiC tubular specimen after high heat flux neutron irradiation measured by resonant ultrasound spectroscopy. <i>Journal of Nuclear Materials</i> , 2019, 523, 391-401.  | 1.3 | 9         |
| 58 | Preliminary study of sintering zero-rupture Fully Ceramic Microencapsulated (FCM) fuel. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1699-1707.  | 1.1 | 11        |
| 59 | In-pile tensile creep of chemical vapor deposited silicon carbide at 300-Å°C. <i>Journal of Nuclear Materials</i> , 2019, 521, 63-70.  | 1.3 | 4         |
| 60 | PHENIX U.S.-Japan Collaboration Investigation of Thermal and Mechanical Properties of Thermal Neutron-Shielded Irradiated Tungsten. <i>Fusion Science and Technology</i> , 2019, 75, 499-509.  | 0.6 | 28        |
| 61 | Characterization of the Irradiation Effects in Nuclear Graphite. <i>Minerals, Metals and Materials Series</i> , 2019, , 901-906.   | 0.3 | 0         |
| 62 | High-dose, intermediate-temperature neutron irradiation effects on silicon carbide composites with varied fiber/matrix interfaces. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2634-2647.   | 2.8 | 13        |
| 63 | Evaluation of the continuous dilatometer method of silicon carbide thermometry for passive irradiation temperature determination. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 445, 46-56.   | 0.6 | 20        |
| 64 | Multiscale experimental characterization of coatings on ceramics: A case study of tungsten on SiC. <i>Surface and Coatings Technology</i> , 2019, 367, 1-10.   | 2.2 | 2         |
| 65 | Fully Ceramic Microencapsulated fuel in prismatic high-temperature gas-cooled reactors: Sensitivity of reactor behavior during design basis accidents to fuel properties and the potential impact of the SiC defect annealing process. <i>Nuclear Engineering and Design</i> , 2019, 345, 125-147. | 0.8 | 18        |
| 66 | Mechanical properties and microstructure characterization of Eurofer97 steel variants in EUROfusion program. <i>Fusion Engineering and Design</i> , 2019, 146, 2227-2232.  | 1.0 | 20        |
| 67 | Response of unalloyed tungsten to mixed spectrum neutrons. <i>Journal of Nuclear Materials</i> , 2019, 520, 193-207.   | 1.3 | 72        |
| 68 | High throughput crystal structure and composition mapping of crystalline nanoprecipitates in alloys by transmission Kikuchi diffraction and analytical electron microscopy. <i>Ultramicroscopy</i> , 2019, 202, 33-43.   | 0.8 | 18        |
| 69 | Mechanical properties of single-crystal tungsten irradiated in a mixed spectrum fission reactor. <i>Journal of Nuclear Materials</i> , 2019, 518, 208-225.   | 1.3 | 58        |
| 70 | Preliminary Characterization and Projections of PVD Coatings On SiC Cladding for Light Water Reactors. <i>Ceramic Engineering and Science Proceedings</i> , 2019, , 117-134.   | 0.1 | 0         |
| 71 | Response of isotopically tailored titanium diboride to neutron irradiation. <i>Journal of the American Ceramic Society</i> , 2019, 102, 85-89.   | 1.9 | 8         |
| 72 | Deformation analysis of SiC-SiC channel box for BWR applications. <i>Journal of Nuclear Materials</i> , 2019, 513, 71-85.  | 1.3 | 17        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Hydrothermal Corrosion of Coatings on Silicon Carbide in Boiling Water Reactor Conditions. <i>Corrosion</i> , 2019, 75, 217-223.  | 0.5 | 22        |
| 74 | Nano-scale microstructure damage by neutron irradiations in a novel Boron-11 enriched TiB <sub>2</sub> ultra-high temperature ceramic. <i>Acta Materialia</i> , 2019, 165, 26-39.   | 3.8 | 28        |
| 75 | Failure behavior of SiC/SiC composite tubes under strain rates similar to the pellet-cladding mechanical interaction phase of reactivity-initiated accidents. <i>Journal of Nuclear Materials</i> , 2019, 514, 66-73.                   | 1.3 | 21        |
| 76 | Transmutation-induced precipitation in tungsten irradiated with a mixed energy neutron spectrum. <i>Acta Materialia</i> , 2019, 165, 51-61.   | 3.8 | 55        |
| 77 | Development of mesopores in superfine grain graphite neutron-irradiated at high fluence. <i>Carbon</i> , 2019, 141, 663-675.  | 5.4 | 31        |
| 78 | Stored energy release in neutron irradiated silicon carbide. <i>Journal of Nuclear Materials</i> , 2019, 514, 181-188.  | 1.3 | 16        |
| 79 | Master Curve Fracture Toughness Characterization of Eurofer97 Steel Variants Using Miniature Multi-Notch Bend Bar Specimens for Fusion Applications. , 2019, , .  |     | 3         |
| 80 | CaO-Al <sub>2</sub> O <sub>3</sub> glass-ceramic as a joining material for SiC based components: A microstructural study of the effect of Si-ion irradiation. <i>Journal of Nuclear Materials</i> , 2018, 501, 172-180.                 | 1.3 | 41        |
| 81 | Electroplating chromium on CVD SiC and SiCf-SiC advanced cladding via PyC compatibility coating. <i>Journal of Nuclear Materials</i> , 2018, 503, 245-249.  | 1.3 | 15        |
| 82 | Interlaboratory round robin study on axial tensile properties of SiC/SiC CMC tubular test specimens. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 1334-1349.  | 1.1 | 21        |
| 83 | Ceramic composites: A review of toughening mechanisms and demonstration of micropillar compression for interface property extraction. <i>Journal of Materials Research</i> , 2018, 33, 424-439.   | 1.2 | 35        |
| 84 | Mechanical property degradation of high crystalline SiC fiber-reinforced SiC matrix composite neutron irradiated to $\sim 1/4$ 100 displacements per atom. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1087-1094.        | 2.8 | 38        |
| 85 | Dimensional stability and anisotropy of SiC and SiC-based composites in transition swelling regime. <i>Journal of Nuclear Materials</i> , 2018, 499, 471-479.   | 1.3 | 42        |
| 86 | Overview of the fusion nuclear science facility, a credible break-in step on the path to fusion energy. <i>Fusion Engineering and Design</i> , 2018, 135, 236-270.  | 1.0 | 67        |
| 87 | Materials challenges for the fusion nuclear science facility. <i>Fusion Engineering and Design</i> , 2018, 135, 290-301.  | 1.0 | 46        |
| 88 | Reprint of: Microstructural evolution of neutron irradiated 3C-SiC. <i>Scripta Materialia</i> , 2018, 143, 176-180.   | 2.6 | 10        |
| 89 | Parametric Evaluation of SiC/SiC Composite Cladding with UO <sub>2</sub> Fuel for LWR Applications: Fuel Rod Interactions and Impact of Nonuniform Power Profile in Fuel Rod. <i>Journal of Nuclear Materials</i> , 2018, 499, 155-167. | 1.3 | 34        |
| 90 | Irradiation stability and thermo-mechanical properties of NITE-SiC irradiated to 10 dpa. <i>Journal of Nuclear Materials</i> , 2018, 499, 242-247.  | 1.3 | 24        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Evaluating the irradiation effects on the elastic properties of miniature monolithic SiC tubular specimens. <i>Journal of Nuclear Materials</i> , 2018, 499, 107-110.                         | 1.3 | 11        |
| 92  | Thermo-mechanical assessment of full SiC/SiC composite cladding for LWR applications with sensitivity analysis. <i>Journal of Nuclear Materials</i> , 2018, 499, 126-143.                     | 1.3 | 45        |
| 93  | Applications of Combined Transmission Kikuchi Diffraction and STEM-SDD X-Ray Analysis in Irradiated Materials. <i>Microscopy and Microanalysis</i> , 2018, 24, 736-737.                       | 0.2 | 1         |
| 94  | Nitrogen adsorption data, FIB-SEM tomography and TEM micrographs of neutron-irradiated superfine grain graphite. <i>Data in Brief</i> , 2018, 21, 2643-2650.                                  | 0.5 | 6         |
| 95  | Multiscale characterization of irradiation behaviour of ion-irradiated SiC/SiC composites. <i>Acta Materialia</i> , 2018, 161, 207-220.   | 3.8 | 36        |
| 96  | Site specific, high-resolution characterisation of porosity in graphite using FIB-SEM tomography. <i>Journal of Nuclear Materials</i> , 2018, 511, 164-173.                                   | 1.3 | 34        |
| 97  | Validation of miniature test specimens for post-irradiation thermal diffusivity measurement. <i>Fusion Engineering and Design</i> , 2018, 136, 513-517.                                       | 1.0 | 3         |
| 98  | Ceramic matrix composites in fission and fusion energy applications. , 2018, , 595-622.   |     | 2         |
| 99  | Advanced manufacturing – A transformative enabling capability for fusion. <i>Fusion Engineering and Design</i> , 2018, 136, 1007-1011.  | 1.0 | 5         |
| 100 | An F82H steel pressurized tube creep capsule for irradiation in HFIR. <i>Nuclear Materials and Energy</i> , 2018, 15, 254-260.  | 0.6 | 3         |
| 101 | Materials-engineering challenges for the fusion core and lifetime components of the fusion nuclear science facility. <i>Nuclear Materials and Energy</i> , 2018, 16, 82-87.                   | 0.6 | 12        |
| 102 | Surface morphology of Tungsten-F82H after high-heat flux testing using plasma-arc lamps. <i>Nuclear Materials and Energy</i> , 2018, 16, 128-132.   | 0.6 | 3         |
| 103 | Raman spectroscopy of neutron irradiated silicon carbide: correlation among Raman spectra, swelling, and irradiation temperature. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1686-1692. | 1.2 | 18        |
| 104 | Microstructural evolution of 3C-SiC exposed to simultaneous neutron irradiation and helium implantation. <i>Journal of Nuclear Materials</i> , 2018, 509, 366-376.                            | 1.3 | 11        |
| 105 | Mechanical properties of neutron irradiated F82H using micro-tensile testing. <i>Nuclear Materials and Energy</i> , 2018, 16, 258-262.  | 0.6 | 9         |
| 106 | Recent progress in the development of SiC composites for nuclear fusion applications. <i>Journal of Nuclear Materials</i> , 2018, 511, 544-555.   | 1.3 | 114       |
| 107 | Development of castable nanostructured alloys as a new generation RAFM steels. <i>Journal of Nuclear Materials</i> , 2018, 511, 598-604.  | 1.3 | 35        |
| 108 | Master Curve Fracture Toughness Characterization of Eurofer97 Using Miniature Multi-Notch Bend Bar Specimens for Fusion Applications. , 2018, , .   |     | 3         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Composition, Structure, Manufacture, and Properties of SiC-SiC CMCS for Nuclear Applications: Informational Chapters in the Asme BPV Code Section III. Ceramic Engineering and Science Proceedings, 2017, , 17-22.             | 0.1 | 1         |
| 110 | Microstructural evolution of pure tungsten neutron irradiated with a mixed energy spectrum. Journal of Nuclear Materials, 2017, 490, 66-74.  | 1.3 | 89        |
| 111 | Experimental design and analysis for irradiation of SiC/SiC composite tubes under a prototypic high heat flux. Journal of Nuclear Materials, 2017, 491, 94-104.  | 1.3 | 26        |
| 112 | Microstructure and hydrothermal corrosion behavior of NITE-SiC with various sintering additives in LWR coolant environments. Journal of the European Ceramic Society, 2017, 37, 1261-1279.                                     | 2.8 | 38        |
| 113 | Equilibrium shapes and surface selection of nanostructures in 6H-SiC. Applied Physics Letters, 2017, 110, 142106.  | 1.5 | 9         |
| 114 | Microstructure and mechanical properties of titanium aluminum carbides neutron irradiated at 400-700 Å°C. Journal of the European Ceramic Society, 2017, 37, 2353-2363.  | 2.8 | 12        |
| 115 | Irradiation resistance of silicon carbide joint at light water reactor-relevant temperature. Journal of Nuclear Materials, 2017, 488, 150-159.   | 1.3 | 21        |
| 116 | Positron annihilation spectroscopy investigation of vacancy defects in neutron-irradiated $\text{SiC}$ . Physical Review B, 2017, 95, .  |     | 23        |
| 117 | Microstructural evolution of neutron irradiated 3C-SiC. Scripta Materialia, 2017, 137, 132-136.  | 2.6 | 18        |
| 118 | Irradiation-induced $\hat{I}^2$ to $\hat{I}\pm$ SiC transformation at low temperature. Scientific Reports, 2017, 7, 1198.  | 1.6 | 26        |
| 119 | Micro-mechanical evaluation of SiC-SiC composite interphase properties and debond mechanisms. Composites Part B: Engineering, 2017, 131, 173-183.  | 5.9 | 46        |
| 120 | Mechanical properties of SiC composites neutron irradiated under light water reactor relevant temperature and dose conditions. Journal of Nuclear Materials, 2017, 494, 46-54.   | 1.3 | 35        |
| 121 | Developing the science and technology for the Material Plasma Exposure eXperiment. Nuclear Fusion, 2017, 57, 116001.   | 1.6 | 44        |
| 122 | Corrigendum to "Microstructure and mechanical properties of titanium aluminum carbides neutron irradiated at 400-700 Å°C". Eur. Ceram. Soc., 37(6) (2017) 2353-2363]. Journal of the European Ceramic Society, 2017, 37, 3225. | 2.8 | 0         |
| 123 | Helium sequestration at nanoparticle-matrix interfaces in helium-heavy ion irradiated nanostructured ferritic alloys. Journal of Nuclear Materials, 2017, 483, 21-34.  | 1.3 | 42        |
| 124 | Phase stability, swelling, microstructure and strength of Ti <sub>3</sub> SiC <sub>2</sub> -TiC ceramics after low dose neutron irradiation. Journal of Nuclear Materials, 2017, 483, 44-53.                                   | 1.3 | 31        |
| 125 | Oxidation Behavior of Matrix Graphite and Its Effect on Compressive Strength. Science and Technology of Nuclear Installations, 2017, 2017, 1-6.  | 0.3 | 10        |
| 126 | Combining Transmission Kikuchi Diffraction and Scanning Transmission Electron Microscopy for Irradiated Materials Studies. Microscopy and Microanalysis, 2017, 23, 2218-2219.  | 0.2 | 1         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Impact of neutron irradiation on thermal helium desorption from iron. Journal of Nuclear Materials, 2017, 489, 109-117.   | 1.3 | 8         |
| 128 | Neutron-irradiation creep of silicon carbide materials beyond the initial transient. Journal of Nuclear Materials, 2016, 478, 97-111.   | 1.3 | 20        |
| 129 | Microscopy of Plasma-Materials Interactions in Tungsten for Fusion Power. Microscopy and Microanalysis, 2016, 22, 1462-1463.  | 0.2 | 0         |
| 130 | Irradiation hardening of pure tungsten exposed to neutron irradiation. Journal of Nuclear Materials, 2016, 480, 235-243.  | 1.3 | 189       |
| 131 | Quantification of irradiation defects in beta-silicon carbide using Raman spectroscopy. Scripta Materialia, 2016, 125, 58-62.   | 2.6 | 30        |
| 132 | Hydrothermal corrosion of silicon carbide joints without radiation. Journal of Nuclear Materials, 2016, 481, 226-233.   | 1.3 | 11        |
| 133 | Neutron energy spectrum influence on irradiation hardening and microstructural development of tungsten. Journal of Nuclear Materials, 2016, 479, 249-254.   | 1.3 | 64        |
| 134 | Recent status and improvement of reduced-activation ferritic-martensitic steels for high-temperature service. Journal of Nuclear Materials, 2016, 479, 515-523.                                     | 1.3 | 87        |
| 135 | Irradiation effects in tungsten-copper laminate composite. Journal of Nuclear Materials, 2016, 481, 134-146.  | 1.3 | 27        |
| 136 | Property changes of G347A graphite due to neutron irradiation. Carbon, 2016, 109, 860-873.  | 5.4 | 45        |
| 137 | Anisotropic swelling and microcracking of neutron irradiated Ti <sub>3</sub> AlC <sub>2</sub> –Ti <sub>5</sub> Al <sub>2</sub> C <sub>3</sub> materials. Scripta Materialia, 2016, 114, 74-78.      | 2.6 | 43        |
| 138 | Development of new generation reduced activation ferritic-martensitic steels for advanced fusion reactors. Journal of Nuclear Materials, 2016, 478, 42-49.  | 1.3 | 122       |
| 139 | Method for analyzing passive silicon carbide thermometry with a continuous dilatometer to determine irradiation temperature. Nuclear Instruments & Methods in Physics Research B, 2016, 370, 49-58. | 0.6 | 72        |
| 140 | Defect evolution in single crystalline tungsten following low temperature and low dose neutron irradiation. Journal of Nuclear Materials, 2016, 470, 278-289.                                       | 1.3 | 107       |
| 141 | Dimensional isotropy of 6H and 3C SiC under neutron irradiation. Journal of Nuclear Materials, 2016, 471, 92-96.  | 1.3 | 34        |
| 142 | Flexural Strength of Composite Tubes for SMR Applications using Pure Bending: Draft Astm Test Method. Ceramic Engineering and Science Proceedings, 2015, , 111-118.                                 | 0.1 | 1         |
| 143 | Defect Microstructure in Irradiated Silicon Carbide. Microscopy and Microanalysis, 2015, 21, 1331-1332.   | 0.2 | 0         |
| 144 | Application of X-ray microcomputed tomography in the characterization of irradiated nuclear fuel and material specimens. Journal of Microscopy, 2015, 260, 163-174.                                 | 0.8 | 9         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | Torsional Shear Strength Tests for Glass-Ceramic Joined Silicon Carbide. International Journal of Applied Ceramic Technology, 2015, 12, 693-699.  | 1.1 | 16        |
| 146 | Chemical reactivity of CVC and CVD SiC with UO <sub>2</sub> at high temperatures. Journal of Nuclear Materials, 2015, 460, 52-59.   | 1.3 | 10        |
| 147 | Through Thickness Mechanical Properties of Chemical Vapor Infiltration and Nano-Infiltration and Transient Eutectic-Phase Processed SiC/SiC Composites. International Journal of Applied Ceramic Technology, 2015, 12, 481-490. | 1.1 | 4         |
| 148 | Microstructure and mechanical properties of heat-treated and neutron irradiated TRISO-ZrC coatings. Journal of Nuclear Materials, 2015, 464, 245-255.   | 1.3 | 17        |
| 149 | High dose neutron irradiation of Hi-Nicalon Type S silicon carbide composites, Part 1: Microstructural evaluations. Journal of Nuclear Materials, 2015, 462, 443-449.   | 1.3 | 37        |
| 150 | High-dose neutron irradiation of Hi-Nicalon Type S silicon carbide composites. Part 2: Mechanical and physical properties. Journal of Nuclear Materials, 2015, 462, 450-457.  | 1.3 | 54        |
| 151 | Modeling and testing miniature torsion specimens for SiC joining development studies for fusion. Journal of Nuclear Materials, 2015, 466, 253-268.  | 1.3 | 14        |
| 152 | Progress on matrix SiC processing and properties for fully ceramic microencapsulated fuel form. Journal of Nuclear Materials, 2015, 457, 9-17.  | 1.3 | 54        |
| 153 | Applicability and Limitations of Miniature Specimens for Properties Determination of Fine-Grained Graphite. , 2014, , 65-83.  |     | 3         |
| 154 | Radiation-tolerant joining technologies for silicon carbide ceramics and composites. Journal of Nuclear Materials, 2014, 448, 497-511.  | 1.3 | 140       |
| 155 | Continuous SiC fiber, CVI SiC matrix composites for nuclear applications: Properties and irradiation effects. Journal of Nuclear Materials, 2014, 448, 448-476.   | 1.3 | 368       |
| 156 | Stability of MX-type strengthening nanoprecipitates in ferritic steels under thermal aging, stress and ion irradiation. Acta Materialia, 2014, 71, 11-19.   | 3.8 | 83        |
| 157 | Joining of $\beta$ -SiC by spark plasma sintering. Journal of the European Ceramic Society, 2014, 34, 1681-1686.  | 2.8 | 90        |
| 158 | Stability of SiC-matrix microencapsulated fuel constituents at relevant LWR conditions. Journal of Nuclear Materials, 2014, 448, 389-398.   | 1.3 | 83        |
| 159 | Thermo-mechanical analysis of LWR SiC/SiC composite cladding. Journal of Nuclear Materials, 2014, 447, 125-142.   | 1.3 | 102       |
| 160 | Current status and recent research achievements in SiC/SiC composites. Journal of Nuclear Materials, 2014, 455, 387-397.  | 1.3 | 266       |
| 161 | Ceramic matrix composites in fission and fusion energy applications. , 2014, , 496-523.   |     | 6         |
| 162 | Silicon Carbide Oxidation in Steam up to 2MPa. Journal of the American Ceramic Society, 2014, 97, 2331-2352.  | 1.9 | 197       |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Stability of the strengthening nanoprecipitates in reduced activation ferritic steels under Fe <sup>2+</sup> ion irradiation. <i>Journal of Nuclear Materials</i> , 2014, 445, 104-110.                               | 1.3 | 24        |
| 164 | Irradiation creep of nano-powder sintered silicon carbide at low neutron fluences. <i>Journal of Nuclear Materials</i> , 2014, 455, 73-80.  | 1.3 | 10        |
| 165 | Physical properties of F82H for fusion blanket design. <i>Fusion Engineering and Design</i> , 2014, 89, 1595-1599.  | 1.0 | 48        |
| 166 | Effects of neutron irradiation on mechanical properties of silicon carbide composites fabricated by nano-infiltration and transient eutectic-phase process. <i>Journal of Nuclear Materials</i> , 2014, 448, 478-486. | 1.3 | 55        |
| 167 | High-Heat-Flux Testing of Irradiated Tungsten-Based Materials for Fusion Applications Using Infrared Plasma Arc Lamps. <i>Fusion Science and Technology</i> , 2014, 66, 394-404.                                      | 0.6 | 9         |
| 168 | Atomic-Resolution Investigation of Irradiation-Induced Defects in Silicon Carbide. <i>Microscopy and Microanalysis</i> , 2014, 20, 1042-1043.   | 0.2 | 1         |
| 169 | The effect of neutron irradiation on the mechanical properties of C/SiC composites. <i>Journal of Nuclear Materials</i> , 2013, 439, 192-201.   | 1.3 | 7         |
| 170 | Determination of interfacial mechanical properties of ceramic composites by the compression of micro-pillar test specimens. <i>Journal of Materials Science</i> , 2013, 48, 5219-5224.                                | 1.7 | 15        |
| 171 | Properties of zirconium carbide for nuclear fuel applications. <i>Journal of Nuclear Materials</i> , 2013, 441, 718-742.  | 1.3 | 222       |
| 172 | Principles and practice of a bellows-loaded compact irradiation vehicle. <i>Journal of Nuclear Materials</i> , 2013, 439, 108-116.  | 1.3 | 8         |
| 173 | Transmutation of silicon carbide in fusion nuclear environment. <i>Journal of Nuclear Materials</i> , 2013, 442, S370-S375.   | 1.3 | 36        |
| 174 | Tritium trapping in silicon carbide in contact with solid breeder under high flux isotope reactor irradiation. <i>Journal of Nuclear Materials</i> , 2013, 442, S497-S500.  | 1.3 | 4         |
| 175 | Observation and possible mechanism of irradiation induced creep in ceramics. <i>Journal of Nuclear Materials</i> , 2013, 434, 141-151.  | 1.3 | 60        |
| 176 | Deuterium trapping at defects created with neutron and ion irradiations in tungsten. <i>Nuclear Fusion</i> , 2013, 53, 073006.  | 1.6 | 99        |
| 177 | Selected Emerging Opportunities for Ceramics in Energy, Environment, and Transportation. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 731-739.  | 1.1 | 19        |
| 178 | Progress on DCLL Blanket Concept. <i>Fusion Science and Technology</i> , 2013, 64, 623-630.   | 0.6 | 11        |
| 179 | Test Methods for Flexural Strength of Ceramic Composite Tubes for Small Modular Reactor Applications. <i>Ceramic Engineering and Science Proceedings</i> , 2013, , 131-140.   | 0.1 | 0         |
| 180 | Retention of Hydrogen Isotopes in Neutron Irradiated Tungsten. <i>Materials Transactions</i> , 2013, 54, 437-441.   | 0.4 | 25        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | Silicon Carbide and Silicon Carbide Composites for Fusion Reactor Application. Materials Transactions, 2013, 54, 472-476.  | 0.4 | 34        |
| 182 | Strength Anisotropy of NITE-SiC/SiC Composite by Various Failure Modes. Materials Transactions, 2012, 53, 2060-2063.   | 0.4 | 3         |
| 183 | Radiation Effects in SiC and SiCâ€SiC. , 2012, , 215-240.  |     | 20        |
| 184 | Nanoscale engineering of radiation tolerant silicon carbide. Physical Chemistry Chemical Physics, 2012, 14, 13429.   | 1.3 | 98        |
| 185 | Radiation effects in SiC for nuclear structural applications. Current Opinion in Solid State and Materials Science, 2012, 16, 143-152.                                   | 5.6 | 318       |
| 186 | Torsional Shear Strength of Silicon Carbide Components Pressurelessly Joined by a Glassâ€Ceramic. International Journal of Applied Ceramic Technology, 2012, 9, 786-794. | 1.1 | 28        |
| 187 | Fabrication and characterization of fully ceramic microencapsulated fuels. Journal of Nuclear Materials, 2012, 426, 268-276.   | 1.3 | 102       |
| 188 | Analysis of grain boundary sinks and interstitial diffusion in neutron-irradiated SiC. Physical Review B, 2011, 83, .  | 1.1 | 29        |
| 189 | Study on Compatibility Between Silicon Carbide and Solid Breeding Materials Under Neutron Irradiation. Fusion Science and Technology, 2011, 60, 288-291.                 | 0.6 | 10        |
| 190 | Midterm Summary of Japan-US Fusion Cooperation Program TITAN. Fusion Science and Technology, 2011, 60, 321-328.  | 0.6 | 7         |
| 191 | Evaluation of Damage Tolerance of Advanced SiC/SiC Composites after Neutron Irradiation. IOP Conference Series: Materials Science and Engineering, 2011, 18, 162005.     | 0.3 | 3         |
| 192 | Fusion Nuclear Science Facility (FNSF) before Upgrade to Component Test Facility (CTF). Fusion Science and Technology, 2011, 60, 441-448.                                | 0.6 | 28        |
| 193 | Damage production and accumulation in SiC structures in inertial and magnetic fusion systems. Journal of Nuclear Materials, 2011, 417, 445-450.                          | 1.3 | 20        |
| 194 | Development of a shear strength test method for NITEâ€SiC joining material. Journal of Nuclear Materials, 2011, 417, 383-386.  | 1.3 | 22        |
| 195 | Concentric ring on ring test for unirradiated and irradiated miniature SiC specimens. Journal of Nuclear Materials, 2011, 417, 406-410.                                  | 1.3 | 14        |
| 196 | Effect of neutron irradiation on fracture resistance of advanced SiC/SiC composites. Journal of Nuclear Materials, 2011, 417, 411-415.                                   | 1.3 | 11        |
| 197 | Stability of SiC and its composites at high neutron fluence. Journal of Nuclear Materials, 2011, 417, 400-405.   | 1.3 | 121       |
| 198 | Stability of 3-D carbon fiber composite to high neutron fluence. Journal of Nuclear Materials, 2011, 417, 629-632.   | 1.3 | 8         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 199 | Joining of SiC-based materials for nuclear energy applications. Journal of Nuclear Materials, 2011, 417, 379-382.  | 1.3 | 80        |
| 200 | Mechanical properties of advanced SiC fiber composites irradiated at very high temperatures. Journal of Nuclear Materials, 2011, 417, 416-420.   | 1.3 | 43        |
| 201 | Silicon carbide composites as fusion power reactor structural materials. Journal of Nuclear Materials, 2011, 417, 330-339.   | 1.3 | 211       |
| 202 | SiC/SiC Composites Irradiation Behaviour in Fusion Reactor Environment Conditions. Advances in Science and Technology, 2010, 73, 27-35.  | 0.2 | 2         |
| 203 | Effects of fast neutron irradiation on zirconium carbide. Journal of Nuclear Materials, 2010, 399, 200-207.  | 1.3 | 69        |
| 204 | Thermophysical and mechanical properties of near-stoichiometric fiber CVI SiC/SiC composites after neutron irradiation at elevated temperatures. Journal of Nuclear Materials, 2010, 403, 48-61. | 1.3 | 100       |
| 205 | An overview of the US DCLL ITER-TBM program. Fusion Engineering and Design, 2010, 85, 1129-1132.   | 1.0 | 43        |
| 206 | Heat Testing of a Prototypical SiC-Foam-Based Flow Channel Insert. IEEE Transactions on Plasma Science, 2010, 38, 2993-2998.   | 0.6 | 1         |
| 207 | The effect of neutron irradiation on the fiber/matrix interphase of silicon carbide composites. Journal of Nuclear Materials, 2009, 384, 195-211.  | 1.3 | 49        |
| 208 | Cavity swelling and dislocation evolution in SiC at very high temperatures. Journal of Nuclear Materials, 2009, 386-388, 222-226.  | 1.3 | 23        |
| 209 | Development of the tailored SiC/SiC composites by the combined fabrication process of ICVI and NITE methods. Journal of Nuclear Materials, 2009, 384, 103-108.                                   | 1.3 | 17        |
| 210 | DC electrical conductivity of silicon carbide ceramics and composites for flow channel insert applications. Journal of Nuclear Materials, 2009, 386-388, 639-642.                                | 1.3 | 39        |
| 211 | Recent advances and issues in development of silicon carbide composites for fusion applications. Journal of Nuclear Materials, 2009, 386-388, 622-627.   | 1.3 | 124       |
| 212 | Thermo-mechanical analysis of a prototypical SiC foam-based flow channel insert. , 2009, , .   |     | 0         |
| 213 | Operating Temperature Window for SiC Ceramics and Composites for Fusion Energy Applications. Fusion Science and Technology, 2009, 56, 1045-1052.   | 0.6 | 12        |
| 214 | Remote Handling and Plasma Conditions to Enable Fusion Nuclear Science R&D Using a Component Testing Facility. Fusion Science and Technology, 2009, 56, 957-964.                                 | 0.6 | 46        |
| 215 | Development Status of a SiC-Foam Based Flow Channel Insert for a U.S.-ITER DCLL TBM. Fusion Science and Technology, 2009, 56, 883-891.   | 0.6 | 35        |
| 216 | Swelling of nuclear graphite and high quality carbon fiber composite under very high irradiation temperature. Journal of Nuclear Materials, 2008, 381, 55-61.                                    | 1.3 | 81        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 217 | Oxidation behavior of SiC/SiC composites for helium cooled solid breeder blanket. Fusion Engineering and Design, 2008, 83, 1490-1494.  | 1.0 | 17        |
| 218 | Microstructures of beta-silicon carbide after irradiation creep deformation at elevated temperatures. Journal of Nuclear Materials, 2008, 382, 170-175.                                    | 1.3 | 20        |
| 219 | Microstructural defects in SiC neutron irradiated at very high temperatures. Journal of Nuclear Materials, 2008, 382, 160-169.   | 1.3 | 69        |
| 220 | Recent research and development for the dual-coolant blanket concept in the US. Fusion Engineering and Design, 2008, 83, 920-927.  | 1.0 | 72        |
| 221 | Unidirectional formation of tetrahedral voids in irradiated silicon carbide. Applied Physics Letters, 2008, 93, .  | 1.5 | 29        |
| 222 | Ceramic Composites for Near Term Reactor Application. , 2008, , .  |     | 12        |
| 223 | Current status and critical issues for development of SiC composites for fusion applications. Journal of Nuclear Materials, 2007, 367-370, 659-671.  | 1.3 | 310       |
| 224 | Mechanical properties of advanced SiC/SiC composites after neutron irradiation. Journal of Nuclear Materials, 2007, 367-370, 713-718.  | 1.3 | 43        |
| 225 | Effect of neutron irradiation on tensile properties of unidirectional silicon carbide composites. Journal of Nuclear Materials, 2007, 367-370, 774-779.                                    | 1.3 | 35        |
| 226 | Irradiation creep of high purity CVD silicon carbide as estimated by the bend stress relaxation method. Journal of Nuclear Materials, 2007, 367-370, 758-763.                              | 1.3 | 37        |
| 227 | Cavity formation in Tyranno-SA SiCf/SiC composite irradiated with multiple-ion beam at elevated temperatures. Journal of Nuclear Materials, 2007, 367-370, 753-757.                        | 1.3 | 14        |
| 228 | The effects of neutron irradiation on shear properties of monolayered PyC and multilayered PyC/SiC interfaces of SiC/SiC composites. Journal of Nuclear Materials, 2007, 367-370, 685-691. | 1.3 | 31        |
| 229 | Swelling of SiC at intermediate and high irradiation temperatures. Journal of Nuclear Materials, 2007, 367-370, 677-684.   | 1.3 | 88        |
| 230 | ITER-Test blanket module functional materials. Journal of Nuclear Materials, 2007, 367-370, 1287-1292.   | 1.3 | 51        |
| 231 | Handbook of SiC properties for fuel performance modeling. Journal of Nuclear Materials, 2007, 371, 329-377.  | 1.3 | 1,079     |
| 232 | Evaluation of the Fracture Strength for Silicon Carbide Layers in the Tri-Isotropic-Coated Fuel Particle. Journal of the American Ceramic Society, 2007, 90, 184-191.                      | 1.9 | 35        |
| 233 | Miniaturized fracture stress tests for thin-walled tubular SiC specimens. Journal of Nuclear Materials, 2007, 367-370, 653-658.  | 1.3 | 38        |
| 234 | Evaluation of neutron irradiated silicon carbide and silicon carbide composites. Journal of Nuclear Materials, 2007, 371, 76-89.   | 1.3 | 130       |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 235 | Shear properties at the PyC/SiC interface of a TRISO-coating. Journal of Nuclear Materials, 2007, 371, 304-313.   | 1.3 | 13        |
| 236 | Evaluation of Fiber/Matrix Interfacial Strength of Neutron Irradiated SiC/SiC Composites Using Hysteresis Loop Analysis of Tensile Test. Materials Transactions, 2006, 47, 207-210.                               | 0.4 | 13        |
| 237 | Determining the shear properties of the PyC/SiC interface for a model TRISO fuel. Journal of Nuclear Materials, 2006, 350, 182-194.   | 1.3 | 16        |
| 238 | Microstructural development in cubic silicon carbide during irradiation at elevated temperatures. Journal of Nuclear Materials, 2006, 351, 228-240.   | 1.3 | 155       |
| 239 | Property tailorability for advanced CVI silicon carbide composites for fusion. Fusion Engineering and Design, 2006, 81, 937-944.  | 1.0 | 60        |
| 240 | Advanced Radiation-Resistant Ceramic Composites. Advances in Science and Technology, 2006, 45, 1915.  | 0.2 | 25        |
| 241 | Evaluation of the Fracture Strength for Silicon Carbide Layers in the Tri-Isotropic-Coated Fuel Particle. Journal of the American Ceramic Society, 2006, .  | 1.9 | 0         |
| 242 | Tensile, Flexural, and Shear Properties of Neutron Irradiated SiC/SiC Composites with Different Fiber-Matrix Interfaces. , 2006, , 392-404.   |     | 0         |
| 243 | Mechanical Properties of Chemically Vapor-Infiltrated Silicon Carbide Structural Composites with Thin Carbon Interphases for Fusion and Advanced Fission Applications. Materials Transactions, 2005, 46, 527-535. | 0.4 | 23        |
| 244 | Evaluation of Tensile Properties of SiC/SiC Composites with Miniaturized Specimens. Materials Transactions, 2005, 46, 543-551.  | 0.4 | 22        |
| 245 | Fabrication of SiC fiber reinforced SiC composite by chemical vapor infiltration for excellent mechanical properties. Journal of Physics and Chemistry of Solids, 2005, 66, 551-554.                              | 1.9 | 44        |
| 246 | Mechanical Properties of Thin Pyrolytic Carbon Interphase SiC-Matrix Composites Reinforced with Near-Stoichiometric SiC Fibers. Journal of the American Ceramic Society, 2005, 88, 3088-3095.                     | 1.9 | 36        |
| 247 | Microstructures and Flexural Properties of High Temperature-Pyrolyzed PIP-SiC/SiC Composites. Key Engineering Materials, 2005, 287, 346-351.  | 0.4 | 3         |
| 248 | HIGH-STRENGTH SIC MATRIX PRODUCTION WITH POLYMERIC TECHNIQUES. , 2005, , 357-360.   |     | 0         |
| 249 | Mechanical Properties of Cubic Silicon Carbide after Neutron Irradiation at Elevated Temperatures. Journal of ASTM International, 2005, 2, 12377.   | 0.2 | 23        |
| 250 | Tensile, Flexural, and Shear Properties of Neutron Irradiated SiC/SiC Composites with Different Fiber-Matrix Interfaces. Journal of ASTM International, 2005, 2, 12884.   | 0.2 | 19        |
| 251 | Status and Prospects of SiC-Based Ceramic Composites for Fusion and Advanced Fission Applications. Journal of Plasma and Fusion Research, 2004, 80, 18-23.  | 0.4 | 8         |
| 252 | Effect of Helium on Radiation Swelling of SiC. Physica Scripta, 2004, T111, 195.  | 1.2 | 3         |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 253 | Issues and advances in SiCf/SiC composites development for fusion reactors. Journal of Nuclear Materials, 2004, 329-333, 56-65.  | 1.3 | 178       |
| 254 | Effect of helium on dislocation loop formation and radiation swelling in SiC. Journal of Nuclear Materials, 2004, 329-333, 486-491.  | 1.3 | 8         |
| 255 | Tyranno-SA/SiC composite with SiC nanowires in the matrix by CVI process. Journal of Nuclear Materials, 2004, 329-333, 539-543.  | 1.3 | 9         |
| 256 | Neutron irradiation effects on high-crystallinity and near-stoichiometry SiC fibers and their composites. Journal of Nuclear Materials, 2004, 329-333, 544-548.            | 1.3 | 36        |
| 257 | Damage evaluation of W-coated SiC by thermal conductivity measurement. Journal of Nuclear Materials, 2004, 329-333, 549-553.   | 1.3 | 7         |
| 258 | Tailoring the microstructure of hot-pressed SiC by heat treatment. Journal of Nuclear Materials, 2004, 329-333, 558-561.   | 1.3 | 15        |
| 259 | Fabrication of advanced SiC fiber/F-CVI SiC matrix composites with SiC/C multi-layer interphase. Journal of Nuclear Materials, 2004, 329-333, 572-576.                     | 1.3 | 44        |
| 260 | Effect of heat treatment on the tensile strength and creep resistance of advanced SiC fibers. Journal of Nuclear Materials, 2004, 329-333, 592-596.                        | 1.3 | 84        |
| 261 | SiC/SiC composites through transient eutectic-phase route for fusion applications. Journal of Nuclear Materials, 2004, 329-333, 587-591.                                   | 1.3 | 129       |
| 262 | Plasma material interaction studies on low activation materials used for plasma facing or blanket component. Journal of Nuclear Materials, 2004, 329-333, 673-677.         | 1.3 | 14        |
| 263 | Study of helium bubble formation in SiCf/PyC $\beta$ -SiC composites by dual-beam irradiation. Journal of Nuclear Materials, 2004, 329-333, 518-523.                       | 1.3 | 10        |
| 264 | High temperature characterization of reaction sintered SiC based materials. Journal of Nuclear Materials, 2004, 329-333, 534-538.  | 1.3 | 15        |
| 265 | Interfacial reactions and mechanical properties of W-SiC in-situ joints for plasma facing components. Journal of Nuclear Materials, 2004, 329-333, 1549-1552.              | 1.3 | 42        |
| 266 | The investigation of crack mechanism for Tyranno-SA SiC/SiC composites with ESI method. Journal of Nuclear Materials, 2004, 329-333, 513-517.                              | 1.3 | 11        |
| 267 | Radiation Damage Study by Advanced Dual-Ion Irradiation Methods. Materials Transactions, 2004, 45, 51-58.  | 0.4 | 14        |
| 268 | Effect of Heat Treatment on Microstructure and Mechanical Properties of Stoichiometric SiC/SiC Composites. Materials Transactions, 2004, 45, 307-310.                      | 0.4 | 18        |
| 269 | Radiation and helium effects on microstructures, nano-indentation properties and deformation behavior in ferrous alloys. Journal of Nuclear Materials, 2003, 323, 251-262. | 1.3 | 92        |
| 270 | PSI issues at plasma facing surfaces of blankets in fusion reactors. Journal of Nuclear Materials, 2003, 313-316, 32-41.   | 1.3 | 61        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 271 | Deformation of thin foil of fcc and bcc metals containing pre-introduced He bubbles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 350, 53-56.                                  | 2.6 | 3         |
| 272 | Effect of SiC particle dispersion on microstructure and mechanical properties of polymer-derived SiC/SiC composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 357, 376-385. | 2.6 | 60        |
| 273 | Processing optimization and mechanical evaluation of hot pressed 2D Tyranno-SA/SiC composites. Journal of the European Ceramic Society, 2003, 23, 1223-1231.  | 2.8 | 71        |
| 274 | Preparation of SiC/SiC Composites by Hot Pressing, Using Tyranno-SA Fiber as Reinforcement. Journal of the American Ceramic Society, 2003, 86, 26-32.   | 1.9 | 137       |
| 275 | Effect of Carbon and Silicon Carbide/Carbon Interlayers on the Mechanical Behavior of Tyranno-SA-Fiber-Reinforced Silicon Carbide-Matrix Composites. Journal of the American Ceramic Society, 2003, 86, 851-856.                            | 1.9 | 25        |
| 276 | Recent Progresses and Critical Issues of SiCf/SiC Composite Under Irradiation Environments. Plasma Science and Technology, 2003, 5, 1965-1976.  | 0.7 | 3         |
| 277 | Processing and Properties of SiC and SiC/SiC Composite Materials by Melt Infiltration Process. International Journal of Modern Physics B, 2003, 17, 1833-1838.  | 1.0 | 8         |
| 278 | Evaluation on Fatigue Crack Propagation of Reduced Activation Ferritic Steel (JLF-1) at High Temperature. International Journal of Modern Physics B, 2003, 17, 1547-1553.   | 1.0 | 3         |
| 279 | Progress in SiC-Based Ceramic Composites for Fusion Applications. Fusion Science and Technology, 2003, 44, 155-162.   | 0.6 | 51        |
| 280 | Mechanical Properties of $\hat{\gamma}$ -SiC After Si- and Dual Si + He-Ion Irradiation at Various Temperatures. Fusion Science and Technology, 2003, 44, 455-459.  | 0.6 | 20        |
| 281 | High Temperature Ion-Irradiation Effects on Microstructural Evolution in $\hat{\gamma}$ -SiC. Fusion Science and Technology, 2003, 44, 181-185.   | 0.6 | 25        |
| 282 | Fabrication and Oxidation-Resistance Property of Allylhydridopolycarbosilane-Derived SiC/SiC Composites. Journal of the Ceramic Society of Japan, 2003, 111, 300-307.   | 1.3 | 32        |
| 283 | Improvement of High Temperature Mechanical Property by Precipitation Hardening of Reduced Activation Ferritic/Martensitic Steels. Fusion Science and Technology, 2003, 44, 196-200.   | 0.6 | 2         |
| 284 | Helium Gas Permeability of SiC/SiC Composite Developed for Blanket Component. Fusion Science and Technology, 2003, 43, 184-190.   | 0.6 | 11        |
| 285 | Helium Gas Permeability of Low Activation SiC/SiC Composite. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 567-570.  | 0.2 | 4         |
| 286 | Hi-Nicalon<sup>TM</sup> Fiber-Reinforced CVI-SiC Matrix Composites: I Effects of PyC and PyC-SiC Multilayers on the Fracture Behaviors and Flexural Properties. Materials Transactions, 2002, 43, 2568-2573.                                | 0.4 | 34        |
| 287 | Low Temperature Swelling in Beta-SiC Associated with Point Defect Accumulation. Materials Transactions, 2002, 43, 612-616.  | 0.4 | 32        |
| 288 | Effect of Fiber Properties on Neutron Irradiated SiC/SiC Composites. Materials Transactions, 2002, 43, 617-621.   | 0.4 | 23        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 289 | Hi-Nicalon<sup>TM</sup> Fiber-Reinforced CVI-SiC Matrix Composites: II Interfacial Shear Strength and Its Effects on the Flexural Properties. <i>Materials Transactions</i> , 2002, 43, 2574-2577.                  | 0.4 | 8         |
| 290 | Materials Research in Japanese Universities. <i>Fusion Science and Technology</i> , 2002, 42, 62-74.  | 0.6 | 1         |
| 291 | Fatigue life and fatigue crack propagation behavior of JLF-1 steel. <i>Fusion Engineering and Design</i> , 2002, 61-62, 677-682.  | 1.0 | 6         |
| 292 | Evaluation of fracture toughness of ceramic matrix composites using small specimens. <i>Fusion Engineering and Design</i> , 2002, 61-62, 733-738.   | 1.0 | 5         |
| 293 | Reaction sintering process of tyranno SA/SiC composites and their characterization. <i>Fusion Engineering and Design</i> , 2002, 61-62, 717-722.  | 1.0 | 16        |
| 294 | Gas permeability of SiC/SiC composites as fusion reactor material. <i>Fusion Engineering and Design</i> , 2002, 61-62, 699-704.   | 1.0 | 33        |
| 295 | Thermo-mechanical properties and microstructure of silicon carbide composites fabricated by nano-infiltrated transient eutectoid process. <i>Fusion Engineering and Design</i> , 2002, 61-62, 723-731.              | 1.0 | 125       |
| 296 | Microstructural stability of reduced activation ferritic/martensitic steels under high temperature and stress cycling. <i>Fusion Engineering and Design</i> , 2002, 61-62, 671-675.                                 | 1.0 | 22        |
| 297 | A novel, very compact 1.0MV singletronâ„¢ accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 488, 466-470. | 0.7 | 3         |
| 298 | Consolidation of polymer-derived SiC matrix composites. <i>Composites Science and Technology</i> , 2002, 62, 2179-2188.   | 3.8 | 50        |
| 299 | Microstructural evolution and mechanical performances of SiC/SiC composites by polymer impregnation/microwave pyrolysis (PIMP) process. <i>Ceramics International</i> , 2002, 28, 899-905.                          | 2.3 | 77        |
| 300 | Interfacial characterization of CVI-SiC/SiC composites. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1088-1092.   | 1.3 | 46        |
| 301 | Promise and challenges of SiCf/SiC composites for fusion energy applications. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1057-1072.   | 1.3 | 187       |
| 302 | High-temperature tensile strength of near-stoichiometric SiC/SiC composites. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1093-1097.  | 1.3 | 29        |
| 303 | Microstructural stability of SiC and SiC/SiC composites under high temperature irradiation environment. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1130-1134.   | 1.3 | 38        |
| 304 | The effect of high dose/high temperature irradiation on high purity fibers and their silicon carbide composites. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1157-1162.                                    | 1.3 | 65        |
| 305 | Process, microstructure and flexural properties of reaction sintered Tyranno SA/SiC composites. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1191-1195.   | 1.3 | 10        |
| 306 | The influences of irradiation temperature and helium production on the dimensional stability of silicon carbide. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 1221-1226.                                    | 1.3 | 84        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 307 | Radiation effects on low cycle fatigue properties of reduced activation ferritic/martensitic steels. Journal of Nuclear Materials, 2002, 307-311, 304-307.  | 1.3 | 22        |
| 308 | Evaluation of hardening behaviour of ion irradiated reduced activation ferritic/martensitic steels by an ultra-micro-indentation technique. Journal of Nuclear Materials, 2002, 307-311, 260-265. | 1.3 | 39        |
| 309 | Evaluation of dual-ion irradiated $\hat{1}^2$ -SiC by means of indentation methods. Journal of Nuclear Materials, 2002, 307-311, 1187-1190.   | 1.3 | 20        |
| 310 | Microstructural analysis of mechanically tested reduced-activation ferritic/martensitic steels. Journal of Nuclear Materials, 2002, 307-311, 293-298.   | 1.3 | 12        |
| 311 | Effects of fibers and fabrication processes on mechanical properties of neutron irradiated SiC/SiC composites. Journal of Nuclear Materials, 2002, 307-311, 1173-1177.                            | 1.3 | 20        |
| 312 | Optimizing the fabrication process for superior mechanical properties in the FCVI SiC matrix/stoichiometric SiC fiber composite system. Journal of Nuclear Materials, 2002, 307-311, 1205-1209.   | 1.3 | 15        |
| 313 | Void swelling in reduced activation ferritic/martensitic steels under ion-beam irradiation to high fluences. Journal of Nuclear Materials, 2002, 307-311, 299-303.                                | 1.3 | 26        |
| 314 | Effects of precipitation morphology on toughness of reduced activation ferritic/martensitic steels. Journal of Nuclear Materials, 2002, 307-311, 490-494.   | 1.3 | 25        |
| 315 | Evaluation of Fatigue Properties with Miniature Hourglass Specimen. , 2002, , 181-194.  |     | 3         |
| 316 | Specimen Size Effects on Tensile Properties of 2D/3D SiC/SiC Composites. , 2002, , 294-305.   |     | 7         |
| 317 | Gas Permeability of SiC/SiC Composite as Blanket Material of Fusion Reactor.. Shinku/Journal of the Vacuum Society of Japan, 2002, 45, 145-148.   | 0.2 | 1         |
| 318 | Small Specimen Test Technology for Evaluation of Fatigue Properties of Fusion Structural Materials. Materials Transactions, 2001, 42, 389-392.  | 0.4 | 8         |
| 319 | Development of High Strength Reaction-Sintered Silicon Carbide.. Journal of the Ceramic Society of Japan, 2001, 109, 315-321.   | 1.3 | 13        |
| 320 | Design and material issues for high performance SiCf/SiC-based fusion power cores. Fusion Engineering and Design, 2001, 55, 55-95.  | 1.0 | 172       |
| 321 | Improvement of mechanical properties of SiC/SiC composites by various surface treatments of fibers. Journal of Nuclear Materials, 2001, 289, 23-29.   | 1.3 | 39        |
| 322 | Microstructural and mechanical characteristics of SiC/SiC composites with modified-RS process. Journal of Nuclear Materials, 2001, 289, 30-36.  | 1.3 | 34        |
| 323 | Development of SiC/SiC composites by PIP in combination with RS. Journal of Nuclear Materials, 2001, 289, 37-41.  | 1.3 | 47        |
| 324 | Properties and radiation effects in high-temperature pyrolyzed PIP-SiC/SiC. Journal of Nuclear Materials, 2001, 289, 42-47.   | 1.3 | 63        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 325 | Response of reduced activation ferritic steels to high-fluence ion-irradiation. Journal of Nuclear Materials, 2001, 297, 279-284.  | 1.3 | 36        |
| 326 | Microstructure analysis and strength evaluation of reaction sintered SiC/SiC composites. Scripta Materialia, 2001, 44, 153-157.  | 2.6 | 21        |
| 327 | Recent Progress of SiC-Fibers and SiC/SiC-Composites for Fusion Applications. Physica Scripta, 2001, T91, 124.   | 1.2 | 18        |
| 328 | Deuterium Retention of SiC/SiC Composite.. Shinku/Journal of the Vacuum Society of Japan, 2001, 44, 209-212.   | 0.2 | 1         |
| 329 | Effect of Specimen Size on Fatigue Properties of Reduced Activation Ferritic/Martensitic Steel. , 2001, , 535-545.   |     | 0         |
| 330 | Correlation Between Creep Properties and Microstructure of Reduced Activation Ferritic/Martensitic Steels. , 2001, , 546-556.  |     | 0         |
| 331 | The Influence of Temperature, Fluence, Dose Rate, and Helium Production on Defect Accumulation and Swelling in Silicon Carbide. , 2001, , 775-785.                           |     | 0         |
| 332 | Microstructural Stability of SiC/SiC Composites under Dual-Beam Ion Irradiation. , 2001, , 786-798.  |     | 0         |
| 333 | Effects of helium implantation on hardness of pure iron and a reduced activation ferritic/martensitic steel. Journal of Nuclear Materials, 2000, 283-287, 470-473.           | 1.3 | 21        |
| 334 | Microstructure and mechanical properties of low-activation glass-ceramic joining and coating for SiC/SiC composites. Journal of Nuclear Materials, 2000, 283-287, 1262-1266. | 1.3 | 46        |
| 335 | Effect of specimen size on fatigue properties of reduced activation ferritic/martensitic steels. Journal of Nuclear Materials, 2000, 283-287, 1018-1022.                     | 1.3 | 29        |
| 336 | Evaluation of neutron irradiated near-stoichiometric silicon carbide fiber composites. Journal of Nuclear Materials, 2000, 283-287, 551-555.                                 | 1.3 | 72        |
| 337 | In situ thermal conductivity measurement of ceramics in a fast neutron environment. Journal of Nuclear Materials, 2000, 283-287, 545-550.                                    | 1.3 | 13        |
| 338 | Specimen size effects on the tensile properties of JPCA and JFMS. Journal of Nuclear Materials, 2000, 283-287, 1014-1017.  | 1.3 | 48        |
| 339 | Joining of silicon carbide composites for fusion energy applications. Journal of Nuclear Materials, 2000, 283-287, 1258-1261.  | 1.3 | 40        |
| 340 | Simulating the influence of radiation temperature variations on microstructural evolution. Journal of Nuclear Materials, 2000, 283-287, 313-318.                             | 1.3 | 11        |
| 341 | High-performance SiC/SiC composites by improved PIP processing with new precursor polymers. Journal of Nuclear Materials, 2000, 283-287, 565-569.                            | 1.3 | 85        |
| 342 | The effect of neutron-irradiation on the shear properties of SiC/SiC composites with varied interface. Journal of Nuclear Materials, 2000, 283-287, 376-379.                 | 1.3 | 15        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 343 | Characterization of low-activation ferritic steel (JLF-1) weld joint by simulated heat-treatments. Journal of Nuclear Materials, 2000, 283-287, 1187-1191.   | 1.3 | 9         |
| 344 | The contribution of various defects to irradiation-induced hardening in an austenitic model alloy. Journal of Nuclear Materials, 2000, 283-287, 423-427.   | 1.3 | 11        |
| 345 | A new Multiple Beams Material Interaction Research Facility for radiation damage studies in fusion materials. Fusion Engineering and Design, 2000, 51-52, 789-795.   | 1.0 | 87        |
| 346 | Cracks in TIG Welded, Neutron-Irradiated 304 Stainless Steel. , 2000, , 959-972.   |     | 0         |
| 347 | Correlation of Hardening and Microstructure of Tantalum Irradiated with Heavy Ions. , 2000, , 1186-1196.   |     | 0         |
| 348 | The influence of helium co-implantation on ion-induced hardening of low activation ferritic steel evaluated by micro-indentation technique. Journal of Nuclear Materials, 1999, 271-272, 115-119.          | 1.3 | 19        |
| 349 | Microstructural examination of Ni-ion irradiated Fe-Ni-Cr alloys followed to micro-zone deformation. Journal of Nuclear Materials, 1999, 271-272, 111-114.   | 1.3 | 18        |
| 350 | Evaluation of Low-Temperature Swelling in Austenitic Stainless Steels. , 1999, , 783-793.  |     | 1         |
| 351 | Crack initiation and growth characteristics in SiC/SiC under indentation test. Journal of Nuclear Materials, 1998, 258-263, 1577-1581.   | 1.3 | 6         |
| 352 | Hardness Evaluation of MeV-Ion Irradiated Materials by means of Very Low-Load Indentation Technique. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 191-198.                 | 0.2 | 5         |
| 353 | NIFS information network for fusion engineering research in Japanese Universities. Journal of Nuclear Materials, 1996, 233-237, 1612-1615.   | 1.3 | 0         |
| 354 | Rate theory modeling of defect evolution under cascade damage conditions: the influence of vacancy-type cascade remnants on defect evolution. Journal of Nuclear Materials, 1996, 233-237, 1022-1028.      | 1.3 | 8         |
| 355 | Characterization of cascade-induced defect production by microstructural analysis based on rate theory modeling. Journal of Nuclear Materials, 1996, 233-237, 1029-1034.                                   | 1.3 | 5         |
| 356 | A modeling of radiation induced microstructural evolution under applied stress in austenitic alloys. Journal of Nuclear Materials, 1996, 239, 80-84.   | 1.3 | 9         |
| 357 | Swelling and dislocation evolution in simple ferritic alloys irradiated to high fluence in FFTF/MOTA. Journal of Nuclear Materials, 1995, 225, 154-162.  | 1.3 | 57        |
| 358 | The influence of impurity trapping on formation and growth of defect clusters in irradiated materials. Nuclear Instruments & Methods in Physics Research B, 1995, 102, 12-18.                              | 0.6 | 4         |
| 359 | Numerical analysis of stress effects on Frank loop evolution during irradiation in austenitic Fe&z.sbnd;Cr&z.sbnd;Ni alloy. Nuclear Instruments & Methods in Physics Research B, 1995, 102, 151-155.       | 0.6 | 0         |
| 360 | Rate theory investigation of influence of cascade cluster formation and solute trapping on point defect agglomeration and extended defect evolution. Journal of Nuclear Materials, 1994, 212-215, 179-185. | 1.3 | 6         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 361 | Microstructural response of titanium-modified austenitic stainless steels to neutron exposure of 70 dpa in FFTF/MOTA. Journal of Nuclear Materials, 1994, 212-215, 464-470. | 1.3 | 13        |
| 362 | The influence of He/dpa ratio and displacement rate on microstructural evolution: a comparison of theory and experiment. Journal of Nuclear Materials, 1994, 210, 290-302.  | 1.3 | 37        |
| 363 | Effects of Applied Stress on Microstructural Evolution in 316SS Under Ion Irradiation. , 1994, , 978-991.   |     | 0         |
| 364 | Dual-ion irradiation effects on microstructure of austenitic alloys. Journal of Nuclear Materials, 1993, 205, 354-360.  | 1.3 | 25        |
| 365 | A Computational Study of Defects Evolution during Irradiation in Single-Phase Austenitic Alloys. Materials Transactions, JIM, 1993, 34, 999-1005.                           | 0.9 | 4         |
| 366 | Effects of Damage Rate and/or He/DPA Ratio on Microstructural Evolution in Ion Irradiated Austenitic Steel. Materials Science Forum, 1992, 97-99, 359-366.                  | 0.3 | 1         |
| 367 | Numerical Estimation of Synergistic Effects of Displacement Damage and Helium Generation on Microstructural Evolution. Materials Transactions, JIM, 1992, 33, 795-801.      | 0.9 | 5         |
| 368 | Microstructural changes in welded joints of 316 SS by dual-ion irradiation. Journal of Nuclear Materials, 1992, 191-194, 722-727.   | 1.3 | 5         |
| 369 | Modeling the effects of damage rate and He/dpa ratio on microstructural evolution. Journal of Nuclear Materials, 1992, 191-194, 1144-1149.                                  | 1.3 | 14        |
| 370 | Microstructural changes in Fe-10Cr-2Mo steel by neutron or charged particle irradiation. Journal of Nuclear Materials, 1992, 191-194, 1204-1208.                            | 1.3 | 5         |
| 371 | Environmental Effects of Microstructural Stability in SiC/SiC Composites. Ceramic Engineering and Science Proceedings, 0, , 161-168.  | 0.1 | 1         |
| 372 | Microstructure and Bending Properties of SiC/SiC Composites Fabricated by Reaction Sintering Process. Ceramic Engineering and Science Proceedings, 0, , 339-346.            | 0.1 | 6         |
| 373 | Mechanical Properties of Advanced SiC Fiber-Reinforced CVI-SiC Composites. Ceramic Engineering and Science Proceedings, 0, , 399-406.                                       | 0.1 | 9         |
| 374 | Silicon Carbide Based Joining Materials for Fusion Energy and Other High-Temperature, Structural Applications. Ceramic Engineering and Science Proceedings, 0, , 621-625.   | 0.1 | 10        |
| 375 | Research and Developments on C/C Composite for Very High Temperature Reactor (VHTR) Application. Ceramic Engineering and Science Proceedings, 0, , 19-31.                   | 0.1 | 6         |
| 376 | Progress in the U.S./Japan PHENIX Project for the Technological Assessment of Plasma Facing Components for DEMO Reactors. Fusion Science and Technology, 0, , 1-11.         | 0.6 | 2         |
| 377 | Tensile and Thermal Properties of Chemically Vapor-Infiltrated Silicon Carbide Composites of Various High-Modulus Fiber Reinforcements. , 0, , 311-318.                     |     | 4         |
| 378 | Recent Advancement of Tyranno/SiC Composites R&D. Ceramic Engineering and Science Proceedings, 0, , 301-308.  | 0.1 | 14        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 379 | Microstructural Stability of SiC/SiC Composites Under Dual-Beam Ion Irradiation. Ceramic Engineering and Science Proceedings, 0, , 325-332.                                    | 0.1 | 12        |
| 380 | Fabrication of SicSic Composites by Modified Reaction Sintering Process. , 0, , 455-462.   |     | 2         |
| 381 | CVI Tyranno-SaSiC Composites with Various Pyc and Sic Interlayers. , 0, , 481-488.   |     | 3         |
| 382 | Development of SiC/SiC Composites by Nano-Infiltration and Transient Eutectoid (NITE) Process. Ceramic Engineering and Science Proceedings, 0, , 311-318.                      | 0.1 | 42        |
| 383 | Preparation and Properties of SiC/SiC Composites with Various Matrices. Ceramic Engineering and Science Proceedings, 0, , 519-526.   | 0.1 | 1         |
| 384 | SiC and Si3N4 Ceramic Joining by Transient Eutectic Phase Process. Ceramic Engineering and Science Proceedings, 0, , 325-330.  | 0.1 | 1         |
| 385 | Specimen Size Effect on the Tensile and Shear Properties of the High-Crystalline and High-Dense Sic/Sic Composites. Ceramic Engineering and Science Proceedings, 0, , 415-420. | 0.1 | 7         |
| 386 | Tensile Properties of Advanced SiC/SiC Composites for Nuclear Control Rod Applications. , 0, , 223-234.  |     | 4         |
| 387 | Analyzing Irradiation-Induced Creep of Silicon Carbide. , 0, , 297-305.  |     | 1         |
| 388 | Optimization of Fracture Strength Tests for the SiC Layer of Coated Fuel Particles by Finite Element Analysis. Ceramic Engineering and Science Proceedings, 0, , 149-159.      | 0.1 | 2         |
| 389 | Validation of Ring-on-Ring Flexural Test for Nuclear Ceramics Using Miniaturized Specimens. Ceramic Engineering and Science Proceedings, 0, , 83-92.                           | 0.1 | 1         |
| 390 | Advanced Radiation-Resistant Ceramic Composites. Advances in Science and Technology, 0, , 1915-1924.   | 0.2 | 2         |
| 391 | R&D and Irradiation Plans for New Nuclear Grade Graphites for Application to VHTR. Ceramic Engineering and Science Proceedings, 0, , 13-19.                                    | 0.1 | 0         |
| 392 | Keyword and Author Index. Ceramic Transactions, 0, , 375-377.  | 0.1 | 0         |
| 393 | Fracture Properties of SiC Layer in Triso-Coated Fuel Particles. Ceramic Engineering and Science Proceedings, 0, , 135-147.  | 0.1 | 2         |
| 394 | Microstructural Examination of Fe-Cr-Mn Alloys after Charged Particle Irradiation. , 0, , 958-958-11.  |     | 0         |
| 395 | Simulation Study of Low-Temperature Irradiation and a LOCA and the Resulting Microstructural Changes in 316 Stainless Steel. , 0, , 1051-1051-10.                              |     | 0         |
| 396 | Bend Stress Relaxation Creep of CVD Silicon Carbide. , 0, , 264-272.   |     | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 397 | Influence of Specimen Type and Loading Configuration on the Fracture Strength of SiC Layer in Coated Particle Fuel. Ceramic Engineering and Science Proceedings, 0, , 77-87.     | 0.1 | 0         |
| 398 | High Temperature Tensile Properties of Near-Stoichiometric Sic Fiber-Reinforced Sic Matrix Composites. Ceramic Engineering and Science Proceedings, 0, , 403-409.                | 0.1 | 0         |
| 399 | Preliminary Study of Influence of Test Specimen Size on the Fracture Behaviour of 2D Woven Ceramic Matrix Composites. Ceramic Engineering and Science Proceedings, 0, , 469-475. | 0.1 | 0         |
| 400 | Measurements of Continuous R-Curve Behavior in Ceramic Matrix Composites. Ceramic Engineering and Science Proceedings, 0, , 421-426.   | 0.1 | 0         |
| 401 | Stoichiometric Constraint for Dislocation Loop Growth in Silicon Carbide. , 0, , 91-99.  |     | 0         |