# Naohiko Sasajima

List of Publications by Year
in descending order



| 35 | 485 | 759233 12 | 677142 22 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 35 | 35 | 35 | 274 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thermodynamic temperature assignment to the point of inflection of the melting curve of high-temperature fixed points. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150044. | 3.4 | 64 |
| 2 | Radiation damage in yttria-stabilized zirconia under Xe ion irradiation. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 487-493. | 1.4 | 59 |
| 3 | Metal carbide-carbon peritectic systems as high-temperature fixed points in thermometry. Metrologia, 2006, 43, L23-L27. | 1.2 | 49 |
| 4 | The effect of the eutectic structure and the residual effect of impurities on the uncertainty in the eutectic temperatures of Feâ€“C and Coâ€“C. Metrologia, 2007, 44, 279-293. | 1.2 | 38 |
| 5 | Damage accumulation in Al2O3 during H2+ or He+ ion irradiation. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 745-751. | 1.4 | 35 |
| 6 | Behaviour of Zirconia Based Fuel Material Under Xe Irradiation. Materials Research Society Symposia Proceedings, 1996, 439, 625. | 0.1 | 34 |
| 7 | EELS analysis of SiC crystals under hydrogen and helium dual-ion beam irradiation. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 148-153. | 1.4 | 30 |
| 8 | The equilibrium liquidus temperatures of rheniumâ€“carbon, platinumâ€“carbon and cobaltâ€“carbon eutectic alloys. Metrologia, 2017, 54, 390-398. | 1.2 | 25 |
| 9 | Ion irradiation and annealing effects in Al2O3 and MgAl2O4. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 181-185. | 1.4 | 23 |
| 10 | Radiation effects on MgAl2O4-stabilized ZrO2 composite material under He+ or Xe2+ ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 250-257. | 1.4 | 20 |
| 11 | Investigation of TiCâ€“C Eutectic and WCâ€“C Peritectic High-Temperature Fixed Points. International Journal of Thermophysics, 2008, 29, 944-957. | 2.1 | 18 |
| 12 | In situ observation of damage evolution in TiC during hydrogen and deuterium ion irradiation at low temperatures. Journal of Nuclear Materials, 1996, 239, 279-283. | 2.7 | 15 |
| 13 | High-Temperature Furnace Systems for Realizing Metal-Carbon Eutectic Fixed Points. AIP Conference Proceedings, 2003, , . | 0.4 | 9 |
| 14 | Thermodynamic study on UPd3 3 and U(Pd0.85Rh0.15)3. Journal of Nuclear Materials, 1997, 247, 232-234. | 2.7 | 8 |
| 15 | Radiation effects on Al2O3 irradiated with H2+ ions. Journal of Nuclear Materials, 1998, 258-263, 1817-1821. | 2.7 | 8 |
| 16 | A Study of the Metal Carbide-Carbon Peritectic Phase Transition for the Cr-C System. International Journal of Thermophysics, 2007, 28, 2028-2040. | 2.1 | 6 |
| 17 | Performance of WCâ€“C peritectic and Ruâ€“C eutectic fixed points. Metrologia, 2019, 56, 055010. | 1.2 | 6 |
| 18 | Damage evolution in TiC crystals during hydrogen and helium dual-ion beam irradiation. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 720-725. | 1.4 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The NIST eutectic project: construction of Coâ€“C, Ptâ€“C and Reâ€“C fixed-point cells and their comparison with the NMIJ. Metrologia, 2006, 43, S109-S114. | 1.2 | 5 |
| 20 | Radiation thermometry standards at NMIJ from â^'30 Â°C to 2800 Â°C. , 2013, , . | | 5 |
| 21 | Realization of the WC-C peritectic fixed point at NIM and NMIJ. , 2013, , . | | 5 |
| 22 | Isotope effect between hydrogen and deuterium ion irradiation on titanium carbide (TiC) at low temperature. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 203-207. | 1.4 | 4 |
| 23 | On the Effect of Impurities on the Melting Curve of the Eutectic System Fe-C. AIP Conference Proceedings, 2003, , . | 0.4 | 4 |
| 24 | The dependence of the ironâ€“carbon eutectic transition temperature on thermal history and its implications for thermometry. Journal of Alloys and Compounds, 2008, 452, 61-66. | 5.5 | 4 |
| 25 | Numerical Prediction of Eutectic Temperature Using a Multi-phase-Field Model. International Journal of Thermophysics, 2011, 32, 2610-2622. | 2.1 | 3 |
| 26 | On the effect of impurities on the melting curve of the metal-carbon eutectic systems. , 0, , . | | 1 |
| 27 | New Filling Technique and Performance Evaluations of the Cr3C2â^'C Peritectic Fixed Point. International Journal of Thermophysics, 2011, 32, 2696-2707. | 2.1 | 1 |
| 28 | Design and Investigation of Pdâ€“C Eutectic Fixed-Point Cells for Thermocouple Calibration at NMIA. International Journal of Thermophysics, 2017, 38, 1. | 2.1 | 1 |
| 29 | Metal-carbon and metal carbide-carbon eutectic fixed points as high-temperature standards. , 0, , . | | 0 |
| 30 | Metal Carbide-Carbon Eutectic and Peritectic Fixed Points as High-Temperature Standards. , 2006, , . | | 0 |
| 31 | Experimental investigation of Cr3C2-C peritectic fixed point. , 2007, , . | | 0 |
| 32 | Investigation of WC-C peritectic high-temperature fixed point. , 2007, , . | | 0 |
| 33 | Radiometric Temperature Comparisons of Three NIST Gold Freezing-Point Blackbodies. International Journal of Thermophysics, 2011, 32, 1664-1673. | 2.1 | 0 |
| 34 | Numerical study of the effect of the shape of the phase diagram on the eutectic freezing temperature. , 2013, , . | | 0 |
| 35 | Dual-wavelength reflectance-ratio (DWR) method applied to high-temperature metals. , 2017, , . | | 0 |