# Jan Dufek

List of Publications by Year
in descending order



| | | 1040056 | 839539 |
|---|---|---|---|
| 27 | 335 | 9 | 18 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 27 | 27 | 27 | 137 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | APPLICATION OF RESPONSE MATRIX METHOD TO TRANSIENT SIMULATIONS OF NUCLEAR SYSTEMS. EPJ Web of Conferences, 2021, 247, 04014. | 0.3 | 0 |
| 2 | Does neutron clustering affect tally errors in Monte Carlo criticality calculations?. Annals of Nuclear Energy, 2021, 155, 108130. | 1.8 | 3 |
| 3 | OPTIMISATION OF MONTE CARLO BURNUP SIMULATIONS. EPJ Web of Conferences, 2021, 247, 04016. | 0.3 | 0 |
| 4 | Optimal time step length and statistics in Monte Carlo burnup simulations. Annals of Nuclear Energy, 2020, 139, 107244. | 1.8 | 2 |
| 5 | Stochastic-deterministic response matrix method for reactor transients. Annals of Nuclear Energy, 2020, 140, 107103. | 1.8 | 5 |
| 6 | Optimal neutron population growth in accelerated Monte Carlo criticality calculations. Annals of Nuclear Energy, 2018, 117, 297-304. | 1.8 | 8 |
| 7 | Stabilization effect of fission source in coupled Monte Carlo simulations. Nuclear Engineering and Technology, 2017, 49, 1095-1099. | 2.3 | 6 |
| 8 | Correlation of errors in the Monte Carlo fission source and the fission matrix fundamental-mode eigenvector. Annals of Nuclear Energy, 2016, 94, 415-421. | 1.8 | 4 |
| 9 | Monte Carlo criticality calculations accelerated by a growing neutron population. Annals of Nuclear Energy, 2016, 94, 16-21. | 1.8 | 8 |
| 10 | Performance of the Explicit Euler and Predictor-Correctorâ€“Based Coupling Schemes in Monte Carlo Burnup Calculations of Fast Reactors. Nuclear Technology, 2015, 191, 193-198. | 1.2 | 0 |
| 11 | Neutron batch size optimisation methodology for Monte Carlo criticality calculations. Annals of Nuclear Energy, 2015, 75, 620-626. | 1.8 | 11 |
| 12 | Development and comparison of spectral methods for passive acoustic anomaly detection in nuclear power plants. Applied Acoustics, 2014, 83, 100-107. | 3.3 | 9 |
| 13 | Description of a stable scheme for steady-state coupled Monte Carloâ€“thermalâ€“hydraulic calculations. Annals of Nuclear Energy, 2014, 68, 1-3. | 1.8 | 12 |
| 14 | Time step length versus efficiency of Monte Carlo burnup calculations. Annals of Nuclear Energy, 2014, 72, 409-412. | 1.8 | 6 |
| 15 | Estimation of errors in the cumulative Monte Carlo fission source. Annals of Nuclear Energy, 2014, 72, 151-155. | 1.8 | 8 |
| 16 | Optimised Iteration in Coupled Monte Carlo â€“ Thermal-Hydraulics Calculations. , 2014, , . | | 0 |
| 17 | Numerical stability of the predictorâ€“corrector method in Monte Carlo burnup calculations of critical reactors. Annals of Nuclear Energy, 2013, 56, 34-38. | 1.8 | 37 |
| 18 | The stochastic implicit Euler method â€“ A stable coupling scheme for Monte Carlo burnup calculations. Annals of Nuclear Energy, 2013, 60, 295-300. | 1.8 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Derivation of a stable coupling scheme for Monte Carlo burnup calculations with the thermalâ€“hydraulic feedback. Annals of Nuclear Energy, 2013, 62, 260-263. | 1.8 | 7 |
| 20 | Preventing xenon oscillations in Monte Carlo burnup calculations by enforcing equilibrium xenon distribution. Annals of Nuclear Energy, 2013, 60, 78-85. | 1.8 | 31 |
| 21 | Building the nodal nuclear data dependences in a many-dimensional state-variable space. Annals of Nuclear Energy, 2011, 38, 1569-1577. | 1.8 | 12 |
| 22 | Stability and convergence problems of the Monte Carlo fission matrix acceleration methods. Annals of Nuclear Energy, 2009, 36, 1648-1651. | 1.8 | 11 |
| 23 | An efficient parallel computing scheme for Monte Carlo criticality calculations. Annals of Nuclear Energy, 2009, 36, 1276-1279. | 1.8 | 1 |
| 24 | Fission matrix based Monte Carlo criticality calculations. Annals of Nuclear Energy, 2009, 36, 1270-1275. | 1.8 | 26 |
| 25 | Numerical Stability of Existing Monte Carlo Burnup Codes in Cycle Calculations of Critical Reactors. Nuclear Science and Engineering, 2009, 162, 307-311. | 1.1 | 41 |
| 26 | Stochastic Approximation for Monte Carlo Calculation of Steady-State Conditions in Thermal Reactors. Nuclear Science and Engineering, 2006, 152, 274-283. | 1.1 | 41 |
| 27 | From once-through nuclear fuel cycle to accelerator-driven transmutation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 630-633. | 1.6 | 4 |