Arkady G Serikov

List of Publications by Year
in descending order

98	983	516710	552781
papers	citations	16	26
		h-index	g-index

100	100	100	637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of the ITER EC upper launcher. Nuclear Fusion, 2008, 48, 054013.	3.5	93
2	The ITER tokamak neutronics reference model C-Model. Fusion Engineering and Design, 2018, 136, 742-746.	1.9	52
3	Verification and validation of the R2Smesh approach for the calculation of high resolution shutdown dose rate distributions. Fusion Engineering and Design, 2012, 87, 443-447.	1.9	51
4	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
5	The Front Steering Launcher Design for the ITER ECRH Upper Port. Journal of Physics: Conference Series, 2005, 25, 143-150.	0.4	40
6	Status of the McCad geometry conversion tool and related visualization capabilities for 3D fusion neutronics calculations. Fusion Engineering and Design, 2013, 88, 2210-2214.	1.9	37
7	Shutdown dose rate assessment with the Advanced D1S method: Development, applications and validation. Fusion Engineering and Design, 2014, 89, 2083-2087.	1.9	37
8	EU developments of the ITER ECRH system. Fusion Engineering and Design, 2007, 82, 454-462.	1.9	33
9	Progress of the ECRH Upper Launcher design for ITER. Fusion Engineering and Design, 2014, 89, 1669-1673.	1.9	28
10	The ITER bolometer diagnostic: Status and plans. Review of Scientific Instruments, 2008, 79, 10F511.	1.3	25
11	Critical Design Issues of the ITER ECH Front Steering Upper Launcher. Fusion Science and Technology, 2008, 53, 139-158.	1.1	20
12	Shut-Down Dose Rate analysis for ITER Diagnostic Equatorial and Upper Ports. Fusion Engineering and Design, 2014, 89, 1964-1968.	1.9	19
13	Monte Carlo radiation shielding and activation analyses for the Diagnostic Equatorial Port Plug in ITER. Fusion Engineering and Design, 2012, 87, 690-694.	1.9	18
14	Neutronic analysis for the IFMIF EVEDA reference test cell and test facility. Fusion Engineering and Design, 2014, 89, 1758-1763.	1.9	18
15	Use of McCad for the conversion of ITER CAD data to MCNP geometry. Fusion Engineering and Design, 2008, 83, 1771-1773.	1.9	17
16	Neutronics for equatorial and upper ports in ITER. Fusion Engineering and Design, 2013, 88, 1965-1968.	1.9	17
17	Conceptual design of the ECH upper launcher system for ITER. Fusion Engineering and Design, 2009, 84, 284-289.	1.9	15
18	Nuclear analyses for the ITER ECRH launcher. Nuclear Fusion, 2008, 48, 054016.	3.5	14

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19	Use of CAD Generated Geometry Data in Monte Carlo Transport Calculations for ITER. Fusion Science and Technology, 2009, 56, 702-709.	1.1	14
20	Radiation Shielding Analyses for the ITER Upper Port ECRH Launcher. Fusion Science and Technology, 2008, 53, 184-195.	1.1	13
21	Neutronic analysis for the IFMIF target and test cell using a new CAD-based geometry model. Fusion Engineering and Design, 2012, 87, 983-988.	1.9	13
22	Preliminary design of the ITER ECH Upper Launcher. Fusion Engineering and Design, 2013, 88, 2761-2766.	1.9	13
23	Neutronic analysis of the Diagnostic Equatorial Ports in ITER. Fusion Engineering and Design, 2015, 98-99, 1427-1431.	1.9	13
24	Radiation shielding analyses for the ECRH launcher in the ITER upper port. Journal of Physics: Conference Series, 2005, 25, 181-188.	0.4	12
25	Numerical benchmarks TRIPOLIâˆ'MCNP with use of MCAM on FNG ITER bulk shield and FNG HCLL TBM mock-up experiments. Fusion Engineering and Design, 2011, 86, 2135-2138.	1.9	12
26	Method for three-dimensional activation analysis of fusion reactor materials. Plasma Devices and Operations, 2001, 9, 237-272.	0.6	11
27	Radiation shield analyses in support of the FS design for the ITER ECRH launcher. Fusion Engineering and Design, 2007, 82, 736-743.	1.9	11
28	Final design of the generic upper port plug structure for ITER diagnostic systems. Fusion Engineering and Design, 2016, 102, 21-27.	1.9	11
29	Hybrid Monte Carlo approach for accurate and efficient shutdown dose rate calculation. Fusion Engineering and Design, 2018, 136, 498-502.	1.9	11
30	On the role of integrated computer modelling in fusion technology. Fusion Engineering and Design, 2020, 157, 111671.	1.9	11
31	Design study of a fast spectrum zero-power reactor dedicated to source driven sub-critical experiments. Energy Conversion and Management, 2010, 51, 1818-1825.	9.2	10
32	Shutdown dose rate mitigation in the ITER upper ports. Fusion Engineering and Design, 2018, 136, 228-232.	1.9	10
33	Possibility of fusion power reactor to transmute minor actinides of spent nuclear fuel. Fusion Engineering and Design, 2002, 63-64, 93-99.	1.9	9
34	Neutronics analysis of the ECW launching system in the ITER upper port. Fusion Engineering and Design, 2005, 74, 229-235.	1.9	9
35	Design and analysis of the structural components in the ITER ECH upper port plug. Fusion Engineering and Design, 2007, 82, 700-708.	1.9	9
36	Nuclear safety and waste management aspects of the EP ECRH upper launcher for ITER. Fusion Engineering and Design, 2009, 84, 1751-1754.	1.9	9

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37	Structural integration studies for the ITER ECRH Upper Launcher. Journal of Physics: Conference Series, 2005, 25, 66-74.	0.4	8
38	Analyses of shielding benchmark experiments using FENDL-3 cross-section data starter library for ITER and IFMIF applications. Progress in Nuclear Science and Technology, 2014, 4, 322-326.	0.3	8
39	Overview of recent nuclear analyses for the Upper ECH launcher in ITER. Fusion Engineering and Design, 2010, 85, 1885-1895.	1.9	7
40	Nuclear-Safety-Related and Shielding Analyses of the ITER Quasi-Optical ECH Launcher. IEEE Transactions on Plasma Science, 2010, 38, 224-231.	1.3	7
41	Review and Validation of Shutdown Dose Rate Estimation Techniques for Application to ITER. Fusion Science and Technology, 2013, 64, 563-570.	1.1	7
42	Burning of Minor Actinides and Fission Products from Spent Nuclear Fuel of Power Plants in Dual-Purpose Fusion Reactor. Plasma Devices and Operations, 2003, 11, 123-129.	0.6	6
43	Automatic generation and validation of an ITER neutronics model from CAD data. Fusion Engineering and Design, 2007, 82, 1956-1959.	1.9	6
44	Progress in neutronics for the ITER ECRH launcher. Fusion Engineering and Design, 2008, 83, 1631-1637.	1.9	6
45	FEM analyses and prototype tests of the UPP structure for the ECRH in ITER. Fusion Engineering and Design, 2009, 84, 1799-1802.	1.9	6
46	The ITER EC H&CD upper launcher: Structural design. Fusion Engineering and Design, 2011, 86, 724-727.	1.9	6
47	Manufacturing studies of double wall components for the ITER EC H&CD upper launcher. Fusion Engineering and Design, 2012, 87, 956-960.	1.9	6
48	Re-evaluation of the irradiation conditions in the IFMIF test cell based on the EVEDA phase design. Fusion Engineering and Design, 2013, 88, 2589-2593.	1.9	6
49	Neutronics analysis for ITER cable looms. Fusion Engineering and Design, 2015, 96-97, 943-947.	1.9	6
50	Neutronic Modeling Challenges for the ITER ECRH Launcher Shielding Design. Nuclear Technology, 2009, 168, 411-416.	1.2	5
51	Manufacturing studies of structural components for the ITER EC upper launcher. Fusion Engineering and Design, 2010, 85, 1406-1409.	1.9	5
52	Evolution of Shielding Computations for the ITER Upper ECH Launcher. Nuclear Technology, 2011, 175, 238-250.	1.2	5
53	Shut-down dose rate analyses for the ITER electron cyclotron-heating upper launcher. Fusion Engineering and Design, 2014, 89, 1899-1904.	1.9	5
54	Status of Europe's contribution to the ITER EC system. EPJ Web of Conferences, 2015, 87, 04004.	0.3	5

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55	Neutronics analysis for the ITER core imaging X-ray spectrometer. Fusion Engineering and Design, 2016, 109-111, 848-854.	1.9	5
56	Validation of FENDL-2.1 nuclear data library for use in ITER nuclear analysis. , 2007, , .		5
57	High Performance Parallel Monte Carlo Transport Computations for ITER Fusion Neutronics Applications. Progress in Nuclear Science and Technology, 2011, 2, 294-300.	0.3	5
58	Activation analysis and waste management for RF DEMO-S materials. Fusion Engineering and Design, 2000, 51-52, 617-622.	1.9	4
59	The advanced 3D method for activation analysis of fusion reactor materials. Fusion Engineering and Design, 2002, 63-64, 487-492.	1.9	4
60	Sensitivity and uncertainty analysis of nuclear responses in the EU HCLL TBM of ITER. Fusion Engineering and Design, 2011, 86, 2156-2159.	1.9	4
61	Phase transformations in the TiO2-NiO system. Inorganic Materials, 2012, 48, 488-493.	0.8	4
62	Fusion power plant for water desalination and reuse. Fusion Engineering and Design, 2001, 58-59, 1109-1115.	1.9	3
63	Characteristics of the hydrous titanium dioxide-anatase phase transformation during hydrothermal treatment in aqueous solutions. Russian Journal of Inorganic Chemistry, 2010, 55, 1197-1201.	1.3	3
64	The ITER EC H&CD upper launcher: Structural system. Fusion Engineering and Design, 2013, 88, 878-881.	1.9	3
65	Port-Based Plasma Diagnostic Infrastructure on ITER. Fusion Science and Technology, 2013, 64, 118-125.	1.1	3
66	Radiation In-Port Cross-Talks for ITER Port Diagnostics. Fusion Science and Technology, 2017, 72, 559-565.	1.1	3
67	Neutronic effects of diagnostic shield module length on radiation environment of ITER diagnostic generic upper port plug. Fusion Engineering and Design, 2018, 136, 920-924.	1.9	3
68	Neutronic effects of the ITER Upper Port environment update in C-model. Fusion Engineering and Design, 2019, 146, 2586-2591.	1.9	3
69	Mitigation of radiation streaming inside the ITER ports. Progress in Nuclear Science and Technology, 2014, 4, 113-117.	0.3	3
70	Shutdown dose calculations for the IFMIF test facility and the high flux test module. Progress in Nuclear Science and Technology, 2014, 4, 233-237.	0.3	3
71	Structural design of the iter ec upper launcher. , 2009, , .		2
72	Synthesis of nanosized titanium dioxide from tetrabutoxytitanium. Russian Journal of Inorganic Chemistry, 2010, 55, 1850-1856.	1.3	2

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73	Shutdown dose rate analyses for the IFMIF HFTM. Fusion Engineering and Design, 2011, 86, 2639-2642.	1.9	2
74	Neutronic Analyses for the Upper Ports in the Neutral Beam Cell of ITER. Fusion Science and Technology, 2011, 60, 708-714.	1.1	2
75	Dose Rate Analyses for the High Energy Beam Transport Section of IFMIF. Fusion Science and Technology, 2012, 62, 226-232.	1.1	2
76	Neutronics analysis of the IVVS/GDC plug in ITER. Fusion Engineering and Design, 2012, 87, 1030-1034.	1.9	2
77	Re-analysis of HCPB/HCLL Blanket Mock-up Experiments Using Recent Nuclear Data Libraries. Nuclear Data Sheets, 2014, 120, 235-238.	2.2	2
78	Dose rate analysis for the diagnostic generic equatorial port plug in the ITER port plug test facility. Fusion Engineering and Design, 2015, 98-99, 2182-2186.	1.9	2
79	Application of the R2Smesh approach for the accurate estimation of photon radiation dose fields around activated ITER in-vessel components. Fusion Engineering and Design, 2015, 98-99, 2187-2190.	1.9	2
80	Verification and Validation of the Geant4 Monte Carlo Code Toolkit for DEMO TBR Evaluations. Fusion Engineering and Design, 2020, 161, 111927.	1.9	2
81	Neutronic analysis for the Edge Charge Exchange Recombination Spectroscopy in Equatorial Port of ITER. Fusion Engineering and Design, 2021, 165, 112256.	1.9	2
82	Neutronics for ITER diagnostic systems and ports. Fusion Engineering and Design, 1998, 42, 221-228.	1.9	1
83	Nuclear safety related analyses of the ITER Quasi-Optical ECH launcher. , 2009, , .		1
84	Radiation Shielding Analyses for the GUINEVERE Project. Nuclear Technology, 2009, 168, 877-887.	1.2	1
85	Transformations of hydrated titanium dioxide in hydrothermal treatment. Russian Journal of Applied Chemistry, 2010, 83, 1209-1214.	0.5	1
86	The ITER EC-H&CD Upper Launcher: FEM analyses of the blanket shield module with respect to surface and nuclear heat loads. , 2013, , .		1
87	Neutronics analysis for the ITER tritium and deposit monitor diagnostics. Fusion Engineering and Design, 2017, 123, 945-949.	1.9	1
88	CAD-Based Shielding Analysis for ITER Port Diagnostics. EPJ Web of Conferences, 2017, 153, 03010.	0.3	1
89	Autoselection Phenomenon in the Normal Cell Clone Undergoing Differentiation: From Cell Population Heterogeneity to Cancer Phenotype via Nonmutational Changes. Journal of Theoretical Medicine, 2000, 2, 275-283.	0.5	0
90	Shielding Analyses for Gamma Spectrometer GAMMACELL in Experiments on Neutron Generator. , 2004, , 419.		0

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91	Shield components adopted to the ITER ECRH upper launcher. , 2007, , .		0
92	Neutronics analyses for the ITER extended performance ECRH launcher. , 2008, , .		0
93	Assessment of the operational dose rate in polymer insulators in the test cell of the IFMIF neutron source. , 2011, , .		0
94	Assessment of the Operational Dose Rate in Polymer Insulators in the Test Cell of the IFMIF Neutron Source. IEEE Transactions on Plasma Science, 2012, 40, 1460-1465.	1.3	0
95	The ITER ECH &amp; CD Upper Launcher: Steps towards final design of the first confinement system. , 2013, , .		0
96	Selected papers from the 23rd Topical Meeting on the Technology of Fusion Energy (TOFE 2018) Fusion Neutronics and Tungsten. Fusion Science and Technology, 2019, 75, iii-iv.	1.1	0
97	THE ITER EC H&CD SYSTEM. , 2011, , .		0
98	The application of â€œHeliosâ€•supercomputer in radiation safety studies for the IFMIF. , 2014, , .		0