Syed Bahauddin Alam

List of Publications by Year
in descending order

25 papers	336 citations	933447 10 h-index	1058476 14 g-index
25 all docs	25 docs citations	25 times ranked	107 citing authors

#	Article	IF	Citations
1	CFD validation of condensation heat transfer in scaled-down small modular reactor applications, Part 1: Pure steam. Experimental and Computational Multiphase Flow, 2022, 4, 409-423.	3.9	6
2	Multi-criteria decision making under uncertainties in composite materials selection and design. Composite Structures, 2022, 279, 114680.	5.8	27
3	Weight loss and burst testing investigations of sintered silicon carbide under oxidizing environments for next generation accident tolerant fuels for SMR applications. Materials Today Communications, 2022, 30, 102958.	1.9	10
4	Numerical investigation of the thermo–hydraulic performance of water–based nanofluids in a dimpled channel flow using Al_2O_3, CuO, and hybrid Al_2O_3–CuO as nanoparticles. Heat Transfer, 2021, 50, 5080-5105.	3.0	16
5	Investigation of entropy and turbulence characteristics of water based Al2O3, TiO2, and graphene-oxide nanoparticles in a triangular rod array. Materials Today: Proceedings, 2021, 47, 3364-3369.	1.8	6
6	Quantitative risk assessment of a high power density small modular reactor (SMR) core using uncertainty and sensitivity analyses. Energy, 2021, 227, 120400.	8.8	20
7	Lattice benchmarking of deterministic, Monte Carlo and hybrid Monte Carlo reactor physics codes for the soluble-boron-free SMR cores. Nuclear Engineering and Design, 2020, 356, 110350.	1.7	8
8	Neutronic feasibility of civil marine small modular reactor core using mixed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>D</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mo linebreak="badbreak">+</mml:mo><mml:msub><mml:mrow><mml:mtext>H</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> coolant. Nuclear Engineering and Design, 2020, 359, 110449.	1.7	12
9	Parametric neutronics analyses of lattice geometry and coolant candidates for a soluble-boron-free civil marine SMR core using micro-heterogeneous duplex fuel. Annals of Nuclear Energy, 2019, 129, 1-12.	1.8	25
10	Small modular reactor core design for civil marine propulsion using micro-heterogeneous duplex fuel. Part II: whole-core analysis. Nuclear Engineering and Design, 2019, 346, 176-191.	1.7	34
11	Small modular reactor core design for civil marine propulsion using micro-heterogeneous duplex fuel. Part I: Assembly-level analysis. Nuclear Engineering and Design, 2019, 346, 157-175.	1.7	37
12	Neutronic investigation of alternative & composite burnable poisons for the soluble-boron-free and long life civil marineÂsmall modular reactor cores. Scientific Reports, 2019, 9, 19591.	3.3	14
13	Coupled neutronic/thermal-hydraulic hot channel analysis of high power density civil marine SMR cores. Annals of Nuclear Energy, 2019, 127, 400-411.	1.8	31
14	Assembly-level analyses of accident-tolerant cladding concepts for a long-life civil marine SMR core using micro-heterogeneous duplex fuel. Progress in Nuclear Energy, 2019, 111, 24-41.	2.9	29
15	A Basic Digital Watermarking Algorithm in Discrete Cosine Transformation Domain. , 2011, , .		7
16	A loss-less compression technique for high quality speech signals and its implementation with MPEG-4 ALS for better compression. , 2010, , .		1
17	Manipulation and transparency control of ICT constituted e-administrative protocol via digital watermarking for LDC's. , 2010, , .		4
18	A secured electronic transaction scheme for mobile banking in Bangladesh incorporating digital watermarking. , 2010, , .		10

#	Article	IF	Citations
19	Non-linear Down-sampling and Signal Reconstruction, without Folding. , 2010, , .		12
20	Digital security algorithm for GSM incorporated virtual e-banking protocol using watermarking technique. , 2010, , .		1
21	Secured cellular banking protocols using virtual internet with digital watermarking. , 2010, , .		1
22	Hardware based realtime, fast and highly secured speech communication using FPGA. , 2010, , .		6
23	A Theory of Loss-less Compression of High Quality Speech Signals with Comparison. , 2010, , .		7
24	Security Enhancement Protocol in SMS-Banking using Digital Watermarking Technique. , 2010, , .		4
25	Watermarking with fast and highly secured encryption for real-time speech signals. , 2010, , .		6