

# Mustafa Äœbeyli

## List of Publications by Year in descending order

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67  
papers

1,093  
citations

430843

18  
h-index

454934

30  
g-index

67  
all docs

67  
docs citations

67  
times ranked

660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on the ballistic impact behavior of various alloys against 7.62mm armor piercing projectile. <i>Materials &amp; Design</i> , 2008, 29, 2009-2016.	5.1	109
2	A Review on the Potential Use of Austenitic Stainless Steels in Nuclear Fusion Reactors. <i>Journal of Fusion Energy</i> , 2008, 27, 271-277.	1.2	76
3	On the comparison of the ballistic performance of steel and laminated composite armors. <i>Materials &amp; Design</i> , 2007, 28, 1257-1262.	5.1	71
4	The ballistic performance of SiC/AA7075 functionally graded composite produced by powder metallurgy. <i>Materials &amp; Design</i> , 2014, 56, 31-36.	5.1	69
5	Modified APEX reactor as a fusion breeder. <i>Energy Conversion and Management</i> , 2004, 45, 1497-1512.	9.2	48
6	Effect of cutting speed on tool performance in milling of B4Cp reinforced aluminum metal matrix composites. <i>Journal of Materials Processing Technology</i> , 2006, 178, 241-246.	6.3	45
7	Investigation on the ballistic behavior of Al <sub>2</sub> O <sub>3</sub> /Al2024 laminated composites. <i>Journal of Materials Processing Technology</i> , 2008, 196, 356-364.	6.3	43
8	Neutronics analysis of HYLIFE-II blanket for fissile fuel breeding in an inertial fusion energy reactor. <i>Annals of Nuclear Energy</i> , 2003, 30, 669-683.	1.8	36
9	LWR spent fuel transmutation in a high power density fusion reactor. <i>Annals of Nuclear Energy</i> , 2004, 31, 871-890.	1.8	32
10	Radiation damage studies on the first wall of a HYLIFE-II type fusion breeder. <i>Energy Conversion and Management</i> , 2005, 46, 3185-3201.	9.2	31
11	Neutronic analysis of PROMETHEUS reactor fueled with various compounds of thorium and uranium. <i>Annals of Nuclear Energy</i> , 2002, 29, 1871-1889.	1.8	30
12	Laser cutting of 7050 Al alloy reinforced with Al <sub>2</sub> O <sub>3</sub> and B <sub>4</sub> C composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 50, 185-193.	3.0	28
13	Ballistic impact performance of an armor material consisting of alumina and dual phase steel layers. <i>Materials &amp; Design</i> , 2011, 32, 1565-1570.	5.1	24
14	Power flattening in Prometheus breeder reactor using nuclear fuel and waste actinide. <i>Annals of Nuclear Energy</i> , 2003, 30, 159-173.	1.8	23
15	Utilization of thorium in a high power density hybrid reactor with innovative coolants. <i>Energy Conversion and Management</i> , 2007, 48, 576-582.	9.2	22
16	Effect of Hardness on the Ballistic Impact Behavior of High-Strength Steels Against 7.62-mm Armor Piercing Projectiles. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 145-153.	2.5	22
17	On the Tritium Breeding Capability of Flibe, Flinabe, and Li <sub>2</sub> O/Sn <sub>80</sub> in a Fusion-Fission (Hybrid) Reactor. <i>Journal of Fusion Energy</i> , 2003, 22, 51-57.	1.2	21
18	Transmutation of minor actinides discharged from LMFBR spent fuel in a high power density fusion reactor. <i>Energy Conversion and Management</i> , 2004, 45, 3219-3238.	9.2	21

#	ARTICLE	IF	CITATIONS
19	Neutronic investigation of a hybrid version of the ARIES-RS fusion reactor. <i>Annals of Nuclear Energy</i> , 2003, 30, 245-259.	1.8	18
20	Hydrogen production via water splitting process in a molten-salt fusion breeder. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7357-7368.	7.1	18
21	On the microstructural and mechanical characterizations of a low carbon and micro-alloyed steel. <i>Materials &amp; Design</i> , 2009, 30, 3274-3278.	5.1	17
22	Effect of Feed Rate on Tool Wear in Milling of Al-4%Cu/B4CpComposite. <i>Materials and Manufacturing Processes</i> , 2008, 23, 865-870.	4.7	16
23	Effect of Different Structural Materials on Neutronic Performance of a Hybrid Reactor. <i>Journal of Fusion Energy</i> , 2003, 22, 173-179.	1.2	15
24	Neutronic performance of new coolants in a fusion-fission (hybrid) reactor. <i>Fusion Engineering and Design</i> , 2004, 70, 319-328.	1.9	14
25	Investigation of the performance parameters and temperature distribution in fuel rod dependent on operation periods and first wall loads in fusion-fission reactor system fueled with ThO <sub>2</sub> . <i>Energy Conversion and Management</i> , 2003, 44, 573-595.	9.2	12
26	Investigation on the ballistic performance of a dual phase steel against 7.62mm AP projectile. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2036-2044.	5.6	12
27	Neutronic performance of HYLIFE-II fusion reactor using various thorium molten salts. <i>Annals of Nuclear Energy</i> , 2006, 33, 1417-1423.	1.8	11
28	Radiation damage on low activation materials used in a hybrid reactor. <i>Materials &amp; Design</i> , 2007, 28, 1453-1460.	5.1	10
29	Burning of Reactor Grade Plutonium Mixed with Thorium in a Hybrid Reactor. <i>Journal of Fusion Energy</i> , 2007, 26, 293-298.	1.2	10
30	Radiation Damage Study on Various Structural Refractory Alloys of a Multi-Purpose Reactor. <i>Journal of Fusion Energy</i> , 2003, 22, 251-257.	1.2	9
31	Utilization of Ceramic Uranium Fuels in ARIES-RS Fusion Reactor. <i>Journal of Fusion Energy</i> , 2004, 23, 41-48.	1.2	9
32	Utilization of Refractory Metals and Alloys in Fusion Reactor Structures. <i>Journal of Fusion Energy</i> , 2006, 25, 197-205.	1.2	9
33	A Study on the Cutting Force in Milling of Boron Carbide Particle Reinforced Aluminium Composite. <i>Science and Engineering of Composite Materials</i> , 2009, 16, 187-196.	1.4	9
34	Investigating Neutronic Parameters of a Thorium Fusion Breeder with Recurrent Neural Networks. <i>Journal of Fusion Energy</i> , 2007, 26, 323-330.	1.2	8
35	Response of Alumina/4340 Steel Laminated Composites against the Impact of 7.62 mm Armor Piercing Projectiles. <i>Science and Engineering of Composite Materials</i> , 2009, 16, 89-98.	1.4	8
36	Investigation on the Neutronic Performance of a Fusion Reactor Using Flibe with Heavy Metal Fluorides. <i>Journal of Fusion Energy</i> , 2006, 25, 67-72.	1.2	7

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37	Impact of Solid Breeder Materials on Tritium Breeding in a Hybrid Reactor. Journal of Fusion Energy, 2006, 25, 99-106.	1.2	7
38	Study on performance of uncoated and coated tools in milling of Al-4%Cu/B <sub>4</sub> C metal matrix composites. Materials Science and Technology, 2007, 23, 945-950.	1.6	7
39	Neutronic study on a magnetic fusion reactor using protective liquid wall of thorium molten salts. Energy Conversion and Management, 2008, 49, 947-952.	9.2	7
40	Reducing Effective Liquid Wall Thickness in a HYLIFE-II Fusion Breeder. Journal of Fusion Energy, 2004, 23, 183-189.	1.2	6
41	Neutronic analysis of a high power density hybrid reactor using innovative coolants. Sadhana - Academy Proceedings in Engineering Sciences, 2005, 30, 585-600.	1.3	6
42	Investigation on the radiation damage behavior of various alloys in a fusion reactor using thorium molten salt. Materials & Design, 2008, 29, 852-859.	5.1	6
43	A neutronic investigation on a helium cooled hybrid reactor using nitride fuels containing reactor grade plutonium. Applied Energy, 2008, 85, 855-866.	10.1	6
44	On the Surface Roughness of Al-4%Cu/B <sub>4</sub> C Metal Matrix Composites Machined by Milling Operation. Science and Engineering of Composite Materials, 2008, 15, .	1.4	6
45	Estimation of radiation damage at the structural materials of a hybrid reactor by probabilistic neural networks. Expert Systems With Applications, 2009, 36, 5184-5189.	7.6	6
46	Neutronic investigation on the ARIES-ST fusion reactor with fissionable molten salts. Energy Conversion and Management, 2010, 51, 2531-2534.	9.2	6
47	Effect of cutting parameters on cutting force and surface roughness in milling alumina reinforced Al-6Zn-2Mg-2Cu composites. Powder Metallurgy, 2011, 54, 172-176.	1.7	6
48	Incineration of weapon grade plutonium in a (DT) fusion driven hybrid reactor using various coolants. Kerntechnik, 2007, 72, 27-32.	0.2	6
49	Radiation Damage and Tritium Breeding Study in a Fusion Reactor Using a Liquid Wall of Various Thorium Molten Salts. Journal of Fusion Energy, 2007, 26, 317-321.	1.2	5
50	Potential use of molten salts bearing plutonium fluorides in a magnetic fusion energy reactor. Annals of Nuclear Energy, 2008, 35, 1087-1092.	1.8	5
51	On the radiation damage characterization of candidate first wall materials in a fusion reactor using various molten salts. Journal of Nuclear Materials, 2006, 359, 192-201.	2.7	4
52	Neutronic analysis of ARIES-RS fusion reactor fueled with thorium. Energy Conversion and Management, 2006, 47, 322-330.	9.2	4
53	Effect of Lithium Enrichment on the Tritium Breeding Characteristics of Various Breeders in a Fusion Driven Hybrid Reactor. Journal of Fusion Energy, 2009, 28, 300-303.	1.2	4
54	Using recurrent neural networks for estimation of minor actinides™ transmutation in a high power density fusion reactor. Expert Systems With Applications, 2010, 37, 2742-2746.	7.6	4

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55	Properties of Aluminum Nano Composites Bearing Alumina Particles and Multiwall Carbon Nanotubes Manufactured by Mechanical Alloying and Microwave Sintering. Metals and Materials International, 2023, 29, 402-419.	3.4	4
56	Investigation on tritium breeding capability of solid-liquid breeders in a (DT) fusion driven hybrid reactor. European Physical Journal D, 2006, 56, B170-B175.	0.4	3
57	Utilization of Heavy Metal Molten Salts in the ARIES-RS Fusion Reactor. Journal of Fusion Energy, 2008, 27, 200-205.	1.2	3
58	Estimation of Neutronic Performance of a High Power Density Hybrid Reactor by Multilayer Perceptron Neural Networks. Journal of Fusion Energy, 2008, 27, 278-284.	1.2	3
59	Effect of Using Thorium Molten Salts on the Neutronic Performance of PACER. Journal of Fusion Energy, 2010, 29, 113-118.	1.2	3
60	A study on the neutronic performance of the ARIES-RS fusion reactor with various coolants bearing nuclear fuel. Kerntechnik, 2008, 73, 207-211.	0.2	3
61	Effect of using various grades of plutonium in the protective liquid wall of an IFE type fusion reactor. Kerntechnik, 2009, 74, 51-54.	0.2	3
62	On the Neutronic Performance of Hylife-II Reactor Fuelled with Carbide Fuels. Journal of Fusion Energy, 2006, 25, 87-97.	1.2	2
63	ON THE HARDENABILITY OF AN INTERCRITICALLY HEAT TREATED MICROALLOYED STEEL. Instrumentation Science and Technology, 2010, 38, 178-186.	1.8	2
64	Power Flattening in ARIES-RS Fusion Breeder Reactor Using Mixed Fuels. Journal of Fusion Energy, 2004, 23, 263-269.	1.2	1
65	On the drop-weight testing of alumina/aluminum laminated composites. Sadhana - Academy Proceedings in Engineering Sciences, 2005, 30, 673-686.	1.3	1
66	Damage study for various materials at the first wall of a magnetic fusion reactor using protective liquid wall. Fusion Engineering and Design, 2008, 83, 1508-1511.	1.9	1
67	A study on the damage of potential first wall materials in a nuclear fusion reactor using plutonium bearing salt. Kerntechnik, 2011, 76, 341-346.	0.2	0