Philip J Maziasz

List of Publications by Year in descending order

48 papers	1,597 citations	430754 18 h-index	454834 30 g-index
49 all docs	49 docs citations	49 times ranked	991 citing authors

#	Article	IF	Citations
1	Creep-Resistant, Al2O3-Forming Austenitic Stainless Steels. Science, 2007, 316, 433-436.	6.0	337
2	Tensile properties and fracture toughness of TiAl alloys with controlled microstructures. Intermetallics, 1996, 4, 429-440.	1.8	266
3	Alloying effects on creep and oxidation resistance of austenitic stainless steel alloys employing intermetallic precipitates. Intermetallics, 2008, 16, 453-462.	1.8	130
4	Issues in replacing Crâ€“Mo steels and stainless steels with 9Crâ€“1Moâ€“V steel. International Journal of Pressure Vessels and Piping, 2004, 81, 507-512.	1.2	108
5	The thermal stability of the microstructure of Î³-based titanium aluminides. Acta Materialia, 1996, 44, 2611-2642.	3.8	82
6	Processing of Advanced Cast Alloys for A-USC Steam Turbine Applications. Jom, 2012, 64, 271-279.	0.9	59
7	Evaluation of Mn substitution for Ni in alumina-forming austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 176-185.	2.6	56
8	Creep behavior of a new cast austenitic alloy. International Journal of Pressure Vessels and Piping, 2007, 84, 21-28.	1.2	55
9	Effect of thermomechanical treatment on 9Cr ferriticâ€“martensitic steels. Journal of Nuclear Materials, 2013, 441, 713-717.	1.3	51
10	Microstructure evolution of alloy 625 foil and sheet during creep at 750Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 412-420.	2.6	45
11	Developing an austenitic stainless steel for improved performance in advanced fossil power facilities. Jom, 1989, 41, 14-20.	0.9	43
12	Oxidation behaviour of cast Niâ€“Cr alloys in steam at 800Â°C. Materials Science and Technology, 2013, 29, 822-827.	0.8	38
13	Selecting and Developing Advanced Alloys for Creep-Resistance for Microturbine Recuperator Applications1. Journal of Engineering for Gas Turbines and Power, 2003, 125, 310-315.	0.5	33
14	Mechanical properties of neutron-irradiated nickel-containing martensitic steels: II. Review and analysis of helium-effects studies. Journal of Nuclear Materials, 2006, 357, 169-182.	1.3	30
15	Advanced alloys for compact, high-efficiency, high-temperature heat-exchangers. International Journal of Hydrogen Energy, 2007, 32, 3622-3630.	3.8	30
16	Helium trapping at Ti-rich MC particles in neutron-irradiated type 316 + Ti stainless steel. Scripta Metallurgica, 1980, 14, 1251-1256.	1.2	29
17	Developing New Cast Austenitic Stainless Steels With Improved High-Temperature Creep Resistance. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.4	26
18	Structure and Composition of Nanometer-Sized Nitrides in a Creep-Resistant Cast Austenitic Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3032-3041.	1.1	20

#	Article	IF	Citations
19	Effect of oxide species and thermomechanical treatments on the strength properties of mechanically alloyed Fe-17%Cr ferritic ODS materials. Metals and Materials International, 2000, 6, 513-518.	0.2	15
20	Development of Creep-Resistant and Oxidation-Resistant Austenitic Stainless Steels for High Temperature Applications. Jom, 2018, 70, 66-75.	0.9	15
21	Overview of Creep Strength and Oxidation of Heat-Resistant Alloy Sheets and Foils for Compact Heat Exchangers. Journal of Turbomachinery, 2006, 128, 814-819.	0.9	14
22	Evaluation of Alumina-Forming Austenitic Foil for Advanced Recuperators. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	14
23	Selection, Development and Testing of Stainless Steels and Alloys for High-Temperature Recuperator Applications. , 2003, , 763.		11
24	Development of high performance cast stainless steels for ITER shield module applications. Journal of Nuclear Materials, 2011, 417, 866-869.	1.3	11
25	High-Temperature Performance of Cast CF8C-Plus Austenitic Stainless Steel. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	10
26	Austenitic Stainless Steels and Alloys With Improved High-Temperature Performance for Advanced Microturbine Recuperators. , 2004, , 131.		9
27	Overview of Creep Strength and Oxidation of Heat-Resistant Alloy Sheets and Foils for Compact Heat-Exchangers. , 2005, , 1011.		7
28	Creep-rupture behavior of 3Crâ€“3Wâ€“V bainitic steels. International Journal of Pressure Vessels and Piping, 2007, 84, 29-36.	1.2	7
29	Weld Thermal Simulation and Its Effect Upon the Microstructure of As-Cast FeAl-Based Materials. Materials Characterization, 1999, 43, 227-233.	1.9	6
30	Mechanical Properties of New Grades of FE-3Cr-W Alloys. , 2004, , 97.		6
31	Materials Selection for High Temperature Metal Recuperators. , 2001, , .		5
32	Alumina-Forming Austenitic Alloys for Advanced Recuperators. , 2007, , .		5
33	Selecting and Developing Advanced Alloys for Creep-Resistance for Microturbine Recuperator Applications. , 2001, , .		4
34	Creep and Oxidation Behavior of Modified CF8C-Plus with W, Cu, Ni, and Cr. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1641-1653.	1.1	4
35	Effect of heterogeneous microstructure on the tensile and creep performances of cast Haynes 282 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 828, 142099.	2.6	4
36	Development of Alumina-Forming Austenitic Alloys for Advanced Recuperators. , 2009, , .		3

#	Article	IF	Citations
37	Radiation effects in materials for fusion reactors. Journal of Vacuum Science and Technology, 1982, 20, 1297-1303.	1.9	2
38	Analysis of Creep and Stress Relaxation Data for Ultra-Supercritical Steam Turbine Materials. , 2006, , 407.		2
39	Developing New Cast Austenitic Stainless Steels With Improved High-Temperature Creep Resistance. , 2007, , 73.		2
40	Age Induced Gamma Prime Coarsening and Hardness Behavior in Pyromet 31V. Microscopy and Microanalysis, 2006, 12, 1044-1045.	0.2	1
41	High Temperature Performance of Cast CF8C-Plus Austenitic Stainless Steel. , 2010, , .		1
42	Creep Strength and Microstructure of AL20-25+Nb Alloy Sheets and Foils for Advanced Microturbine Recuperators. , 2006, , .		1
43	Microanalysis for Design and Development of Improved High-Temperature Alloys. Microscopy and Microanalysis, 2001, 7, 544-545.	0.2	0
44	Microstructure and Microanalysis of Ni-based Superalloy Exhaust Valves. Microscopy and Microanalysis, 2004, 10, 654-655.	0.2	0
45	Microstructural Banding and Biaxial Fracture Toughness Tests in a Specially Heat-Treated Reactor Pressure Vessel Steel. , 2004, , 65.		0
46	New Creep-Resistant Cast Alloys with Improved Oxidation Resistance in Water Vapor at 650â€“800Â°C. Frontiers in Materials, 2015, 2, .	1.2	0
47	Properties of a thick-section narrow-gap gas tungsten arc weld of cast Haynes 282. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 961-971.	1.3	0
48	Evaluation of Alumina-Forming Austenitic Foil for Advanced Recuperators. , 2010, , .		0