

# Preet M. Singh

## List of Publications by Year in descending order

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70  
papers

2,031  
citations

279798

23  
h-index

254184

43  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1958  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of excess Mg to control corrosion in molten MgCl <sub>2</sub> and KCl eutectic salt mixture. Corrosion Science, 2022, 194, 109914.	6.6	16
2	Interaction of beryllium with 316H stainless steel in molten Li <sub>2</sub> BeF <sub>4</sub> (FLiBe). Journal of Nuclear Materials, 2022, 565, 153698.	2.7	12
3	Effect of oxide impurities on the corrosion behavior of structural materials in molten LiF-NaF-KF. Corrosion Science, 2022, 206, 110473.	6.6	8
4	Stability of plasma-enhanced atomic layer deposited barrier films in biological solutions. Engineering Reports, 2021, 3, e12303.	1.7	1
5	Effect of Li metal addition on corrosion control of Hastelloy N and stainless steel 316H in molten LiF-NaF-KF. Journal of Nuclear Materials, 2021, 555, 153098.	2.7	12
6	Corrosion Behavior of Pre-Carburized Hastelloy N, Haynes 244, Haynes 230, and Incoloy 800H in Molten FLiNaK. Nuclear Technology, 2020, 206, 1751-1768.	1.2	2
7	Role of Ferrite and Austenite Phases on the Overall Pitting Behavior of Lean Duplex Stainless Steels in Thiosulfate-Containing Environments. Journal of the Electrochemical Society, 2020, 167, 041502.	2.9	8
8	Carburization of metals by a chemical mechanism of carbon transport through molten fluoride salts. Journal of Nuclear Materials, 2020, 539, 152307.	2.7	3
9	Effect of Plastic Deformation on Pitting Mechanism of SS304. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4750-4757.	2.2	5
10	Crevice corrosion and environmentally assisted cracking of high-strength duplex stainless steels in simulated concrete pore solutions. Construction and Building Materials, 2019, 203, 366-376.	7.2	17
11	Effect of Elastic Stresses on Pitting Behavior of Stainless Steel 304. Journal of the Electrochemical Society, 2019, 166, C209-C216.	2.9	7
12	Coefficient of friction evolution with temperature under fretting wear for FeCrAl fuel cladding candidate. Journal of Nuclear Materials, 2019, 520, 140-151.	2.7	11
13	Effects of Isothermal Aging on the Microstructure Evolution and Pitting Corrosion Resistance of Lean Duplex Stainless Steel UNS S32003. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2103-2113.	2.2	10
14	Development of ALD Coatings for Harsh Environment Applications. ACS Applied Materials & Interfaces, 2019, 11, 7498-7509.	8.0	22
15	Phenomena Identification and Ranking Table (PIRT) study for metallic structural materials for advanced High-Temperature reactor. Annals of Nuclear Energy, 2019, 123, 222-229.	1.8	11
16	Study on the Repassivation Behavior of Steels Using Electrochemical Test Methods. , 2019, , 244-261.		1
17	Effect of Viscosity on the Erosion-Corrosion of Steels Exposed to White Liquor Including Abrasives for Extended Time Periods. Materials Performance and Characterization, 2019, 8, 20180013.	0.3	1
18	Inhibition of Bacterial Adhesion on Nanotextured Stainless Steel 316L by Electrochemical Etching. ACS Biomaterials Science and Engineering, 2018, 4, 90-97.	5.2	86

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19	Fretting wear comparison of cladding materials for reactor fuel cladding application. Journal of Nuclear Materials, 2018, 508, 505-515.	2.7	26
20	Redox potential control in molten salt systems for corrosion mitigation. Corrosion Science, 2018, 144, 44-53.	6.6	100
21	Carburization effects on the corrosion of Cr, Fe, Ni, W, and Mo in fluoride-salt cooled high temperature reactor (FHR) coolant. Annals of Nuclear Energy, 2018, 120, 279-285.	1.8	28
22	Evaluation of the heat-affected zone (HAZ) of a weld joint using nonlinear Rayleigh waves. Materials Letters, 2017, 190, 221-224.	2.6	14
23	Evaluation of sensitization in stainless steel 304 and 304L using nonlinear Rayleigh waves. NDT and E International, 2017, 88, 17-23.	3.7	46
24	Hydrophobicity and Improved Localized Corrosion Resistance of Grain Boundary Etched Stainless Steel in Chloride-Containing Environment. Journal of the Electrochemical Society, 2017, 164, C61-C65.	2.9	14
25	High Temperature Oxidation Behavior of APM and APMT under Dry Air/Steam Condition. MRS Advances, 2016, 1, 2471-2476.	0.9	2
26	High temperature oxidation and $\gamma'$ depletion in the single-crystal superalloy PWA 1484. Materials at High Temperatures, 2016, 33, 476-488.	1.0	8
27	Effect of Thiosulfate on Metastable Pitting of 304L and S32101 in Chloride- and Thiosulfate-Containing Environment. Corrosion, 2016, 72, 628-635.	1.1	20
28	Wettability control of stainless steel surfaces via evolution of intrinsic grain structures. Journal of Materials Science, 2016, 51, 5196-5206.	3.7	28
29	Effect of sulfates on passivation in alkaline environments. Proceedings of Institution of Civil Engineers: Construction Materials, 2016, 169, 39-43.	1.1	1
30	Investigation of copper plated-through-holes in glass fiber reinforced epoxy substrates using AC impedance spectroscopy. Journal of Materials Science: Materials in Electronics, 2015, 26, 2563-2570.	2.2	3
31	High Temperature Oxidation of Newly Developed Alloy 282 in the Flowing-Air and Steam Condition at 900-1100°C. Oxidation of Metals, 2015, 84, 291-305.	2.1	17
32	Corrosion Behavior of Austenitic and Duplex Stainless Steels in Thiosulfate- and Chloride-Containing Environments. Corrosion, 2015, 71, 937-944.	1.1	18
33	Preparation, structure and adsorption properties of synthesized multiwall carbon nanotubes for highly effective removal of maxilon blue dye. Korean Journal of Chemical Engineering, 2015, 32, 2456-2462.	2.7	40
34	Characterization of stress corrosion cracking in carbon steel using nonlinear Rayleigh surface waves. NDT and E International, 2014, 62, 144-152.	3.7	70
35	Recent Developments in High-Strength Stainless Steels for Corrosion Mitigation in Prestressed Concrete. Advances in Civil Engineering Materials, 2014, 3, 20140017.	0.6	0
36	Corrosion Study of Super Ferritic Stainless Steel UNS S44660 (26Cr-3Ni-3Mo) and Several Other Stainless Steel Grades (UNS S31603, S32101, and S32205) in Caustic Solution Containing Sodium Sulfide. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5039-5053.	2.2	19

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37	Chloride-induced corrosion resistance of high-strength stainless steels in simulated alkaline and carbonated concrete pore solutions. <i>Corrosion Science</i> , 2012, 57, 241-253.	6.6	159
38	Repassivation behavior of X65 pipeline steel in fuel grade ethanol and its implications for the stress corrosion cracking mechanism. <i>Corrosion Science</i> , 2012, 65, 238-248.	6.6	34
39	Characterization of Milled Wood Lignin (MWL) in Loblolly Pine Stem Wood, Residue, and Bark. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 12910-12916.	5.2	84
40	Electrochemical behaviour of duplex stainless steels in caustic environment. <i>Corrosion Science</i> , 2011, 53, 71-81.	6.6	32
41	Cathodic activities of oxygen and hydrogen on carbon steel in simulated fuel-grade ethanol. <i>Electrochimica Acta</i> , 2011, 56, 2312-2320.	5.2	19
42	Phase angle analysis for stress corrosion cracking of carbon steel in fuel-grade ethanol: Experiments and simulation. <i>Electrochimica Acta</i> , 2011, 56, 1835-1847.	5.2	50
43	Cathodic Activity of Carbon Steel in Simulated Fuel-Grade Ethanol and Its Impact on Hydrogen Embrittlement. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
44	Film Breakdown and Anodic Dissolution during Stress Corrosion Cracking of Carbon Steel in Bioethanol. <i>Journal of the Electrochemical Society</i> , 2010, 157, C86.	2.9	36
45	Role of water, acetic acid and chloride on corrosion and pitting behaviour of carbon steel in fuel-grade ethanol. <i>Corrosion Science</i> , 2010, 52, 2303-2315.	6.6	83
46	Effect of Ethanol Chemistry on SCC of Carbon Steel: Results of a Round Robin Testing. , 2010, , .		0
47	Effect of Ethanol Chemistry on Stress Corrosion Cracking of Carbon Steel in Fuel-Grade Ethanol. <i>Corrosion</i> , 2009, 65, 785-797.	1.1	59
48	Effect of Heat Treatment on Corrosion and Stress Corrosion Cracking of S32205 Duplex Stainless Steel in Caustic Solution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1388-1399.	2.2	30
49	Stress Corrosion Cracking Behavior of Peened Friction Stir Welded 2195 Aluminum Alloy Joints. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 406-413.	2.5	25
50	Corrosion susceptibility of peened friction stir welded 7075 aluminum alloy joints. <i>Corrosion Science</i> , 2009, 51, 135-143.	6.6	103
51	The new forestry biofuels sector. <i>Biofuels, Bioproducts and Biorefining</i> , 2008, 2, 58-73.	3.7	219
52	A Novel Method for Enhanced Recovery of Lignin from Aqueous Process Streams. <i>Journal of Wood Chemistry and Technology</i> , 2007, 27, 219-224.	1.7	17
53	Inspection of White Layer in Hard Turned Components Using Electrochemical Methods. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007, 129, 447-452.	2.2	13
54	Initiation and Propagation of Stress-Assisted Corrosion (SAC) Cracks in Carbon Steel Boiler Tubes. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2007, 129, 559-566.	1.4	7

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55	Investigating a Mechanism for Transgranular Stress Corrosion Cracking on Buried Pipelines in Near-Neutral pH Environments. <i>Corrosion</i> , 2007, 63, 932-939.	1.1	23
56	Effect of wood species on corrosion behavior of carbon steel and stainless steels in black liquors. <i>Corrosion Science</i> , 2007, 49, 497-509.	6.6	19
57	Stress Assisted Corrosion of Waterwall Tubes in Recovery Boiler Tubes: Failure Analysis. <i>Journal of Failure Analysis and Prevention</i> , 2007, 7, 361-370.	0.9	21
58	Stress Corrosion Cracking of Welded 2205 Duplex Stainless Steel in Sulfide-containing Caustic Solution. <i>Journal of Failure Analysis and Prevention</i> , 2007, 7, 371-377.	0.9	40
59	Corrosion Behavior of Carbon Steels in Sulfide-Containing Caustic Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 7789-7794.	3.7	17
60	Susceptibility of stainless steel alloys to crevice corrosion in ClO <sub>2</sub> bleach plants. <i>Corrosion Science</i> , 2004, 46, 2159-2182.	6.6	7
61	Solubility in the NaOH~Na <sub>2</sub> CO <sub>3</sub> ~Na <sub>2</sub> SO <sub>4</sub> ~Na <sub>2</sub> SO <sub>3</sub> ~Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ~Na <sub>2</sub> S~H <sub>2</sub> O System, a Simulated Black Liquor Recovery Boiler Smelt. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 4228-4233.	3.7	5
62	Electrochemical Noise (ECN) Measurements as a Corrosion Monitoring Tool: A Review. <i>Corrosion Reviews</i> , 2002, 20, 359-378.	2.0	7
63	Corrosion Fatigue of a Heat Treated Duplex Stainless Steel in Paper Machine White Waters. <i>Corrosion Reviews</i> , 2002, 20, 295-316.	2.0	3
64	Fracture and Fatigue of DRA Composites. , 1996, , 895-904.		5
65	The effects of reinforcement additions and heat treatment on the evolution of the poisson ratio during straining of discontinuously reinforced aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995, 26, 2911-2921.	2.2	18
66	Effects of heat treatment on stress corrosion cracking of a discontinuously reinforced aluminum (DRA) 7XXX alloy during slow strain rate testing. <i>Scripta Metallurgica Et Materialia</i> , 1995, 33, 1393-1399.	1.0	9
67	Effects of heat treatment and reinforcement size. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993, 24, 2531-2543.	1.4	147
68	Poisson ratio measurements for an al-based metal matrix composite during elastic and plastic deformation. <i>Scripta Metallurgica Et Materialia</i> , 1993, 29, 199-204.	1.0	16
69	Effects of Environmental Exposure on Ductile-Phase Toughening in Niobium Silicide-Niobium Composites. <i>Materials Research Society Symposia Proceedings</i> , 1993, 322, 503.	0.1	2
70	Environmental effects on ductile-phase toughening in Nb <sub>5</sub> Si <sub>3</sub> -Nb composites. <i>Jom</i> , 1992, 44, 36-41.	1.9	35