

David Young

List of Publications by Year in descending order

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56
papers

2,173
citations

186265

28
h-index

233421

45
g-index

58
all docs

58
docs citations

58
times ranked

1501
citing authors

#	ARTICLE	IF	CITATIONS
1	Delinkage of Metal Surface Saturation Concentration and Micellization in Corrosion Inhibition. Corrosion, 2022, 78, 625-633.	1.1	3
2	Pitting mechanism of mild steel in marginally sour environmentsâ€™ Part I: A parametric study based on formation of protective layers. Corrosion Science, 2021, 183, 109305.	6.6	12
3	Pitting mechanism of mild steel in marginally sour environments â€™ Part II: Pit initiation based on the oxidation of the chemisorbed iron sulfide layers. Corrosion Science, 2021, 184, 109337.	6.6	5
4	An in-situ Raman study on the oxidation of mackinawite as a corrosion product layer formed on mild steel in marginally sour environments. Corrosion Science, 2021, 188, 109516.	6.6	13
5	Application of Scratch Testing for the Assessment of the Adherent Properties of Scales and CO2 Corrosion Product Layers and their Relation to Corrosion. Corrosion Science, 2021, 190, 109625.	6.6	6
6	Determining Critical Micelle Concentration of Organic Corrosion Inhibitors and its Effectiveness in Corrosion Mitigation. Corrosion, 2021, 77, 266-275.	1.1	15
7	Effect of CaCO3-saturated solution on CO2 corrosion of mild steel explored in a system with controlled water chemistry and well-defined mass transfer conditions. Corrosion Science, 2019, 158, 108078.	6.6	32
8	CO ₂ Corrosion of Mild Steel Exposed to CaCO ₃ -Saturated Aqueous Solutions. Corrosion, 2019, 75, 1281-1284.	1.1	5
9	Decanethiol as a Corrosion Inhibitor for Carbon Steels Exposed to Aqueous CO ₂ . Corrosion, 2019, 75, 1246-1254.	1.1	24
10	Effect of Fe ₃ O ₄ and CaCO ₃ Scales on the CO ₂ Corrosion of Mild Steel. Corrosion, 2019, 75, 1434-1449.	1.1	23
11	Investigation of Pitting Corrosion Initiation and Propagation of a Type 316L Stainless Steel Manufactured by the Direct Metal Laser Sintering Process. Corrosion, 2019, 75, 140-143.	1.1	19
12	Effect of Corrosion Inhibitor Alkyl Tail Length on the Electrochemical Process Governing CO ₂ Corrosion of Mild Steel. Corrosion, 2019, 75, 137-139.	1.1	18
13	Formation Mechanisms of Iron Oxide and Iron Sulfide at High Temperature in Aqueous H ₂ S Corrosion Environment. Journal of the Electrochemical Society, 2018, 165, C171-C179.	2.9	13
14	Formation of iron oxide and iron sulfide at high temperature and their effects on corrosion. Corrosion Science, 2018, 135, 167-176.	6.6	81
15	Influence of calcium and magnesium ions on CO ₂ corrosion of carbon steel in oil and gas production systems - A review. Journal of Natural Gas Science and Engineering, 2018, 59, 287-296.	4.4	80
16	Black powder formation by dewing and hygroscopic corrosion processes. Journal of Natural Gas Science and Engineering, 2018, 56, 358-367.	4.4	10
17	Phase Analysis of Scale Deposition in Boiler Tubes Utilizing Steam-Assisted Gravity Drainage Produced Water. Journal of Thermal Science and Engineering Applications, 2017, 9, .	1.5	2
18	Thiols as Volatile Corrosion Inhibitors for Top-of-the-Line Corrosion. Corrosion, 2017, 73, 892-899.	1.1	26

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19	Corrosion Behavior of Mild Steel in Sour Environments at Elevated Temperatures. Corrosion, 2017, 73, 915-926.	1.1	24
20	Effect of High Temperature on the Aqueous H ₂ S Corrosion of Mild Steel. Corrosion, 2017, 73, 1188-1191.	1.1	22
21	Effect of Incorporation of Calcium into Iron Carbonate Protective Layers in CO ₂ Corrosion of Mild Steel. Corrosion, 2017, 73, 238-246.	1.1	40
22	The Role of Iron Sulfide Polymorphism in Localized H ₂ S Corrosion of Mild Steel. Corrosion, 2017, 73, 155-168.	1.1	29
23	Radium-226 Removal from Simulated Produced Water Using Natural Zeolite and Ion-Exchange Resin. Industrial & Engineering Chemistry Research, 2016, 55, 12502-12505.	3.7	14
24	A Thermodynamic Model for the Prediction of Mild Steel Corrosion Products in an Aqueous Hydrogen Sulfide Environment. Corrosion, 2015, 71, 945-960.	1.1	42
25	Wellbore integrity and corrosion of low alloy and stainless steels in high pressure CO ₂ geologic storage environments: An experimental study. International Journal of Greenhouse Gas Control, 2014, 23, 30-43.	4.6	49
26	Thermodynamic Study of Hydrogen Sulfide Corrosion of Mild Steel. Corrosion, 2014, 70, 375-389.	1.1	66
27	Time-dependent electrochemical behavior of carbon steel in MEA-based CO ₂ capture process. International Journal of Greenhouse Gas Control, 2014, 30, 125-132.	4.6	53
28	Investigation of Pseudo-Passivation of Mild Steel in CO ₂ Corrosion. Corrosion, 2014, 70, 294-302.	1.1	65
29	Wellbore integrity and corrosion of carbon steel in CO ₂ geologic storage environments: A literature review. International Journal of Greenhouse Gas Control, 2013, 16, S70-S77.	4.6	89
30	Electrochemical Investigation of the Role of Cl ⁻ on Localized Carbon Dioxide Corrosion Behavior of Mild Steel. Corrosion, 2013, 69, 15-24.	1.1	20
31	Effect of Calcium on the Formation and Protectiveness of Iron Carbonate Layer in CO ₂ Corrosion. Corrosion, 2013, 69, 912-920.	1.1	65
32	Selection of Electrode Area for Electrochemical Noise Measurements to Monitor Localized CO ₂ Corrosion. Journal of the Electrochemical Society, 2012, 159, C283-C288.	2.9	16
33	Mesh-capped probe design for direct pH measurements at an actively corroding metal surface. Journal of Applied Electrochemistry, 2010, 40, 683-690.	2.9	45
34	Effect of Impurities on the Corrosion Behavior of CO ₂ Transmission Pipeline Steel in Supercritical CO ₂ -Water Environments. Environmental Science & Technology, 2010, 44, 9233-9238.	10.0	193
35	Chemistry and Structure of the Passive Film on Mild Steel in CO ₂ Corrosion Environments. Industrial & Engineering Chemistry Research, 2009, 48, 6296-6302.	3.7	70
36	Equilibrium Expressions Related to the Solubility of the Sour Corrosion Product Mackinawite. Industrial & Engineering Chemistry Research, 2008, 47, 1738-1742.	3.7	77

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37	Self-assembling iron and manganese metal-germanium-selenide frameworks: $[NMe_4]_2MGe_4Se_{10}$, where $M = Fe$ or Mn . Journal of the Chemical Society Dalton Transactions, 1998, , 2023-2028.	1.1	39
38	Microporous layered tin sulfide, SnS-1: molecular sieve or intercalant?. Journal of Materials Chemistry, 1998, 8, 711-720.	6.7	26
39	Electrical Sieves for Molecule Recognition. , 1998, , 39-58.		0
40	Effect of microgravity on the crystallization of a self-assembling layered material. Nature, 1997, 388, 857-860.	27.8	31
41	Does Microgravity Influence Self-Assembly?. Advanced Materials, 1997, 9, 1133-1149.	21.0	23
42	Dimetal Linked Open Frameworks: $[(CH_3)_4N]_2(Ag_2,Cu_2)Ge_4S_{10}$. Chemistry of Materials, 1996, 8, 2147-2152.	6.7	115
43	Thermally Stable Self-assembling Open Frameworks: Isostructural $Cs_{3+4}N_{3+4}$ Iron Germanium Sulfides. Chemische Berichte, 1996, 129, 283-287.	0.2	56
44	Synthesis and compositional tuning of the band properties of isostructural TMA-Sn S_x Se $_{1-x}$? Nanoporous Materials. Advanced Materials, 1995, 7, 370-374.	21.0	40
45	Nanoporous tin(IV) chalcogenides: Flexible open-framework nanbmaterials for chemical sensing. Advanced Materials, 1995, 7, 375-378.	21.0	59
46	Synthesis and Structure of the Novel Nanoporous Tin(IV) Sulfide Material TPA-SnS-3. Chemistry of Materials, 1995, 7, 245-248.	6.7	90
47	Raman Spectra of the Unidimensional Aluminophosphate Molecular Sieves AlPO $_4$ -11, AlPO $_4$ -5, AlPO $_4$ -8, and VPI-5. The Journal of Physical Chemistry, 1994, 98, 4677-4682.	2.9	60
48	A novel method for production of finely divided tin metal powders. Powder Technology, 1994, 78, 19-24.	4.2	10
49	Rapid analysis of occluded Pr $_2$ NH in the AlPO $_4$ -11 and VPI-5 molecular sieves by direct mass spectrometry. Journal of Materials Chemistry, 1993, 3, 295.	6.7	5
50	Cloverite: exploring the 30-ANG. supercage for advanced materials science applications. Journal of the American Chemical Society, 1993, 115, 2300-2313.	13.7	54
51	Thermal and hydrothermal stability of molecular sieve VPI-5 by in situ x-ray powder diffraction. The Journal of Physical Chemistry, 1991, 95, 1380-1383.	2.9	53
52	Further Studies on the Synthesis of VPI-5. Studies in Surface Science and Catalysis, 1991, 60, 53-62.	1.5	22
53	Investigations into the nature of the hexagonal polytype of faujasite. Zeolites, 1991, 11, 98-102.	0.5	37
54	Studies on SAPO-5: synthesis with higher silicon contents. Zeolites, 1991, 11, 277-281.	0.5	54

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55	¹³ C nuclear magnetic resonance studies of the products of reaction of acetaldehyde and of simple ketones in liquid ammonia, in hydrazine hydrate, and in some substituted hydrazine solutions. Journal of the Chemical Society Perkin Transactions II, 1985, , 1285.	0.9	27
56	PITTING MECHANISM OF MILD STEEL IN MARGINALLY SOUR ENVIRONMENTS: PIT PROPAGATION BASED ON ACIDIFICATION BY CATALYTIC OXIDATION OF DISSOLVED HYDROGEN SULFIDE. Corrosion, 0, , .	1.1	2