

Daniel R Strongin

List of Publications by Year in descending order

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76196

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95
all docs

95
docs citations

95
times ranked

6835
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer by Layer Deposition of 1T-MoS ₂ for the Hydrogen Evolution Reaction. ChemistrySelect, 2022, 7, .	0.7	1
2	Implementing the donor-acceptor approach in electronically conducting copolymers via electropolymerization. RSC Advances, 2022, 12, 12089-12115.	1.7	13
3	Electrocatalytic CO ₂ reduction on earth abundant 2D Mo ₂ C and Ti ₃ C ₂ MXenes. Chemical Communications, 2021, 57, 1675-1678.	2.2	40
4	Ni- and Co-Substituted Metallic MoS ₂ for the Alkaline Hydrogen Evolution Reaction. ChemElectroChem, 2020, 7, 3606-3615.	1.7	24
5	Biomimetic System for the Application of Nanomaterials in Fluid Purification: Removal of Arsenic with Ferrihydrite. ACS Omega, 2020, 5, 5873-5880.	1.6	3
6	Highly Dispersed RuOOH Nanoparticles on Silica Spheres: An Efficient Photothermal Catalyst for Selective Aerobic Oxidation of Benzyl Alcohol. Nano-Micro Letters, 2020, 12, 41.	14.4	6
7	Photochemistry of ferritin decorated with plasmonic gold nanoparticles. Environmental Science: Nano, 2019, 6, 85-93.	2.2	3
8	Effect of Interlayer Co ²⁺ on Structure and Charge Transfer in NiFe Layered Double Hydroxides. Journal of Physical Chemistry C, 2019, 123, 13593-13599.	1.5	11
9	Tunable catalytic activity of cobalt-intercalated layered MnO ₂ for water oxidation through confinement and local ordering. Journal of Catalysis, 2019, 374, 143-149.	3.1	13
10	Advances in electro-copolymerization of NIR emitting and electronically conducting block copolymers. Journal of Materials Chemistry C, 2019, 7, 3168-3172.	2.7	16
11	High Electron Mobility of Amorphous Red Phosphorus Thin Films. Angewandte Chemie - International Edition, 2019, 58, 6766-6771.	7.2	29
12	High Electron Mobility of Amorphous Red Phosphorus Thin Films. Angewandte Chemie, 2019, 131, 6838-6843.	1.6	4
13	Structural evolution and electrical properties of metal ion-containing polydopamine. Journal of Materials Science, 2019, 54, 6393-6400.	1.7	19
14	Systematic Doping of Cobalt into Layered Manganese Oxide Sheets Substantially Enhances Water Oxidation Catalysis. Inorganic Chemistry, 2018, 57, 557-564.	1.9	43
15	Cobalt Intercalated Layered NiFe Double Hydroxides for the Oxygen Evolution Reaction. Journal of Physical Chemistry B, 2018, 122, 847-854.	1.2	78
16	Effect of Intercalated Metals on the Electrocatalytic Activity of 1T-MoS ₂ for the Hydrogen Evolution Reaction. ACS Energy Letters, 2018, 3, 7-13.	8.8	211
17	Structure and Magnetism Evolution from FeCo Nanoparticles to Hollow Nanostructure Conversion for Magnetic Applications. ACS Applied Nano Materials, 2018, 1, 5837-5842.	2.4	11
18	Co-Mo-P Based Electrocatalyst for Superior Reactivity in the Alkaline Hydrogen Evolution Reaction. ChemCatChem, 2018, 10, 4832-4837.	1.8	33

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19	Antimicrobial Properties of 2D MnO ₂ and MoS ₂ Nanomaterials Vertically Aligned on Graphene Materials and Ti ₃ C ₂ MXene. <i>Langmuir</i> , 2018, 34, 7192-7200.	1.6	111
20	Synergistic In-Layer Cobalt Doping and Interlayer Iron Intercalation into Layered MnO ₂ Produces an Efficient Water Oxidation Electrocatalyst. <i>ACS Energy Letters</i> , 2018, 3, 2280-2285.	8.8	36
21	Vertically aligned MoS ₂ on Ti ₃ C ₂ (MXene) as an improved HER catalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16882-16889.	5.2	146
22	Effect of Interlayer Spacing on the Activity of Layered Manganese Oxide Bilayer Catalysts for the Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 1863-1870.	6.6	144
23	Redox properties of birnessite from a defect perspective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9523-9528.	3.3	50
24	Nickel Confined in the Interlayer Region of Birnessite: an Active Electrocatalyst for Water Oxidation. <i>Angewandte Chemie</i> , 2016, 128, 10537-10541.	1.6	28
25	Nickel Confined in the Interlayer Region of Birnessite: an Active Electrocatalyst for Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10381-10385.	7.2	112
26	Water Oxidation Catalyzed by Cobalt Oxide Supported on the Mattagamite Phase of CoTe ₂ . <i>ACS Catalysis</i> , 2016, 6, 7393-7397.	5.5	39
27	Intercalation of Cobalt into the Interlayer of Birnessite Improves Oxygen Evolution Catalysis. <i>ACS Catalysis</i> , 2016, 6, 7739-7743.	5.5	79
28	Oxidation of arsenite to arsenate on birnessite in the presence of light. <i>Geochemical Transactions</i> , 2016, 17, 5.	1.8	29
29	Frustrated Solvation Structures Can Enhance Electron Transfer Rates. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4804-4808.	2.1	67
30	Coupled Redox Transformation of Chromate and Arsenite on Ferrihydrite. <i>Environmental Science & Technology</i> , 2015, 49, 2858-2866.	4.6	51
31	Formation of carbon nanospheres via ultrashort pulse laser irradiation of methane. <i>Materials Chemistry and Physics</i> , 2015, 156, 47-53.	2.0	8
32	Effect of Phospholipid on Pyrite Oxidation and Microbial Communities under Simulated Acid Mine Drainage (AMD) Conditions. <i>Environmental Science & Technology</i> , 2015, 49, 7701-7708.	4.6	38
33	Decoration of the layered manganese oxide birnessite with Mn(II) gives a new water oxidation catalyst with fifty-fold turnover number enhancement. <i>Dalton Transactions</i> , 2015, 44, 12981-12984.	1.6	40
34	Copper-Intercalated Birnessite as a Water Oxidation Catalyst. <i>Langmuir</i> , 2015, 31, 12807-12813.	1.6	69
35	Molecular level investigations of phosphate sorption on corundum (̂-Al ₂ O ₃) by ³¹ P solid state NMR, ATR-FTIR and quantum chemical calculation. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 107, 252-266.	1.6	94
36	Adsorption of carbon dioxide on Al/Fe oxyhydroxide. <i>Journal of Colloid and Interface Science</i> , 2013, 400, 1-10.	5.0	22

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37	Reduction of Nitrite and Nitrate on Nano-dimensioned FeS. <i>Origins of Life and Evolution of Biospheres</i> , 2013, 43, 305-322.	0.8	26
38	ATR-FTIR and Density Functional Theory Study of the Structures, Energetics, and Vibrational Spectra of Phosphate Adsorbed onto Goethite. <i>Langmuir</i> , 2012, 28, 14573-14587.	1.6	142
39	Reduction of Nitrite and Nitrate to Ammonium on Pyrite. <i>Origins of Life and Evolution of Biospheres</i> , 2012, 42, 275-294.	0.8	34
40	Photoinduced Oxidation of Arsenite to Arsenate in the Presence of Goethite. <i>Environmental Science & Technology</i> , 2012, 46, 8044-8051.	4.6	85
41	Reactivity of sandstones under conditions relevant to geosequestration: 1. Hematite-bearing sandstone exposed to supercritical carbon dioxide commingled with aqueous sulfite or sulfide solutions. <i>Chemical Geology</i> , 2012, 296-297, 96-102.	1.4	15
42	Photoinduced Oxidation of Arsenite to Arsenate on Ferrihydrite. <i>Environmental Science & Technology</i> , 2011, 45, 2783-2789.	4.6	94
43	Structural water in ferrihydrite and constraints this provides on possible structure models. <i>American Mineralogist</i> , 2011, 96, 513-520.	0.9	51
44	CO ₂ Sequestration through Mineral Carbonation of Iron Oxyhydroxides. <i>Environmental Science & Technology</i> , 2011, 45, 10422-10428.	4.6	26
45	Neutron Pair Distribution Function Study of Two-Line Ferrihydrite. <i>Environmental Science & Technology</i> , 2011, 45, 9883-9890.	4.6	37
46	Hematite reactivity with supercritical CO ₂ and aqueous sulfide. <i>Chemical Geology</i> , 2011, 283, 210-217.	1.4	25
47	Reductive dissolution of ferrihydrite by ascorbic acid and the inhibiting effect of phospholipid. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 215-223.	5.0	23
48	Surface science studies of environmentally relevant iron (oxy)hydroxides ranging from the nano to the macro-regime. <i>Surface Science</i> , 2010, 604, 1065-1071.	0.8	6
49	Investigation of Surface Structures by Powder Diffraction: A Differential Pair Distribution Function Study on Arsenate Sorption on Ferrihydrite. <i>Inorganic Chemistry</i> , 2010, 49, 325-330.	1.9	53
50	Role of hydrogen peroxide and hydroxyl radical in pyrite oxidation by molecular oxygen. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4971-4987.	1.6	173
51	Reactivity of ferritin and the structure of ferritin-derived ferrihydrite. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 871-885.	1.1	43
52	Ferrihydrite phase transformation in the presence of aqueous sulfide and supercritical CO ₂ . <i>Chemical Geology</i> , 2010, 271, 26-30.	1.4	31
53	Photodissolution of Ferrihydrite in the Presence of Oxalic Acid: An In Situ ATR-FTIR/DFT Study. <i>Langmuir</i> , 2010, 26, 16246-16253.	1.6	53
54	Effects of individual promoters on the Direct Synthesis of methylchlorosilanes. <i>Journal of Catalysis</i> , 2009, 266, 291-298.	3.1	41

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55	Effects of Multiple Promotion of the Direct Synthesis Contact Mass with P, Zn, and Sn on the Synthesis of Methylchlorosilanes. <i>Catalysis Letters</i> , 2009, 133, 14-22.	1.4	25
56	Ferrihydrite reactivity toward carbon dioxide. <i>Journal of Colloid and Interface Science</i> , 2009, 337, 492-500.	5.0	79
57	Effects of phospholipid on pyrite oxidation in the presence of autotrophic and heterotrophic bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4111-4123.	1.6	26
58	Abiotic ammonium formation in the presence of Ni-Fe metals and alloys and its implications for the Hadean nitrogen cycle. <i>Geochemical Transactions</i> , 2008, 9, 5.	1.8	91
59	Humidity-induced restructuring of the calcite surface and the effect of divalent heavy metals. <i>Journal of Colloid and Interface Science</i> , 2007, 305, 101-110.	5.0	26
60	The Structure of Ferrihydrite, a Nanocrystalline Material. <i>Science</i> , 2007, 316, 1726-1729.	6.0	754
61	Characterization and Surface Reactivity of Ferrihydrite Nanoparticles Assembled in Ferritin. <i>Langmuir</i> , 2006, 22, 9313-9321.	1.6	53
62	Physical Structures of Lipid Layers on Pyrite. <i>Environmental Science & Technology</i> , 2006, 40, 1511-1515.	4.6	16
63	The effect of adsorbed lipid on pyrite oxidation under biotic conditions. <i>Geochemical Transactions</i> , 2006, 7, 8.	1.8	11
64	Divalent Cd and Pb uptake on calcite cleavage faces: An XPS and AFM study. <i>Journal of Colloid and Interface Science</i> , 2005, 288, 350-360.	5.0	91
65	Mechanistic Aspects of Pyrite Oxidation in an Oxidizing Gaseous Environment: An In Situ HATR-IR Isotope Study. <i>Environmental Science & Technology</i> , 2005, 39, 7576-7584.	4.6	43
66	A vibrational spectroscopic study of the oxidation of pyrite by ferric iron. <i>American Mineralogist</i> , 2004, 88, 1318-1323.	0.9	22
67	Environmental Applications: Treatment/Remediation Using Nanotechnology: An Overview. <i>ACS Symposium Series</i> , 2004, , 202-204.	0.5	1
68	Iron and Cobalt Oxide and Metallic Nanoparticles Prepared from Ferritin. <i>Langmuir</i> , 2004, 20, 10283-10287.	1.6	80
69	Charge Development on Ferritin: An Electrokinetic Study of a Protein Containing a Ferrihydrite Nanoparticle. <i>ACS Symposium Series</i> , 2004, , 226-229.	0.5	2
70	Thermal Chemistry of CH ₃ on Si/Cu(100); the Role of Sn as a Promoter. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16213-16219.	1.2	5
71	Origin of Oxygen in Sulfate during Pyrite Oxidation with Water and Dissolved Oxygen: An In Situ Horizontal Attenuated Total Reflectance Infrared Spectroscopy Isotope Study. <i>Environmental Science & Technology</i> , 2004, 38, 5604-5606.	4.6	57
72	A vibrational spectroscopic study of the oxidation of pyrite by molecular oxygen. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1807-1813.	1.6	49

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73	A Bioengineering Approach to the Production of Metal and Metal Oxide Nanoparticles. ACS Symposium Series, 2004, , 230-237.	0.5	0
74	Pyrite oxidation inhibition by a cross-linked lipid coating. Geochemical Transactions, 2003, 4, 1.	1.8	31
75	Adsorption of Phospholipids on Pyrite and Their Effect on Surface Oxidation. Langmuir, 2003, 19, 8787-8792.	1.6	29
76	Characterization of the structure and the surface reactivity of a marcasite thin film. Geochimica Et Cosmochimica Acta, 2003, 67, 807-812.	1.6	7
77	A mechanism for the production of hydroxyl radical at surface defect sites on pyrite. Geochimica Et Cosmochimica Acta, 2003, 67, 935-939.	1.6	201
78	Suppression of pyrite oxidation in acidic aqueous environments using lipids having two hydrophobic tails. Journal of Environmental Management, 2003, 7, 969-974.	1.7	43
79	Photochemical Reactivity of Ferritin for Cr(VI) Reduction. Chemistry of Materials, 2002, 14, 4874-4879.	3.2	59
80	Pyrite-Induced Hydrogen Peroxide Formation as a Driving Force in the Evolution of Photosynthetic Organisms on an Early Earth. Astrobiology, 2001, 1, 283-288.	1.5	142
81	Aqueous Geochemical and Surface Science Investigation of the Effect of Phosphate on Pyrite Oxidation. Environmental Science & Technology, 2001, 35, 2252-2257.	4.6	51
82	Oxidation of {100} and {111} surfaces of pyrite: Effects of preparation method. American Mineralogist, 2000, 85, 623-626.	0.9	52
83	Adsorption and thermal decomposition of C ₂ D ₅ I on the (110) and (111) planes of NiAl: A temperature programmed deposition and x-ray photoelectron spectroscopy study. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 810-816.	0.9	5
84	An introduction to geocatalysis. Journal of Geochemical Exploration, 1998, 62, 201-215.	1.5	106
85	Surface Charge Development on Transition Metal Sulfides: An Electrokinetic Study. Geochimica Et Cosmochimica Acta, 1998, 62, 633-642.	1.6	201
86	Methanol Chemisorption and Reaction on the (111) Crystallographic Plane of NiAl. Journal of Physical Chemistry B, 1998, 102, 2970-2978.	1.2	14
87	Reactivity of the (100) Plane of Pyrite in Oxidizing Gaseous and Aqueous Environments: Effects of Surface Imperfections. Environmental Science & Technology, 1998, 32, 3743-3748.	4.6	90
88	Structure sensitivity of pyrite oxidation; comparison of the (100) and (111) planes. American Mineralogist, 1998, 83, 1353-1356.	0.9	73
89	Adsorption and Decomposition of Methyl Iodide on Low Index Planes of NiAl. Langmuir, 1997, 13, 3162-3171.	1.6	7
90	Thiosulfate oxidation: Catalysis of synthetic sphalerite doped with transition metals. Geochimica Et Cosmochimica Acta, 1996, 60, 4701-4710.	1.6	27

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91	A NEXAFS study on the adsorption of ammonia on clean and potassium-promoted iron. Surface Science Letters, 1991, 253, L417-L422.	0.1	1
92	Using hyperthermal ions to selectively adsorb surface intermediates: evidence for the adsorption of CH ₃ on platinum from a 10 ³ eV CH ₃ ⁺ ion beam. Chemical Physics Letters, 1991, 187, 281-285.	1.2	15
93	Ammonia-pretreatment-induced restructuring of iron single-crystal surfaces: Its effects on ammonia synthesis and on coadsorbed aluminum oxide and potassium. Journal of Catalysis, 1989, 118, 99-110.	3.1	36