

Randy S Lewis

List of Publications by Year in descending order

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46
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2,251
citations

331670

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43
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47
all docs

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docs citations

47
times ranked

1718
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Optical Configuration on the Accuracy and Response of Low-Cost Optical Particle Counters. <i>International Journal of Thermophysics</i> , 2022, 43, 1.	2.1	1
2	Factors leading to sustainable social impact on the affected communities of engineering service learning projects. <i>Development Engineering</i> , 2021, 6, 100066.	1.8	7
3	Positive cooperativity during <i>Azotobacter vinelandii</i> nitrogenase-catalyzed acetylene reduction. <i>Biophysical Chemistry</i> , 2021, 277, 106650.	2.8	2
4	Electron-mediated carbohydrate fuel cells: Characterizing the homogeneous viologen-mediated electron transfer rate of carbohydrate oxidation. <i>Renewable Energy</i> , 2020, 145, 1985-1991.	8.9	11
5	Oxidation efficiency of glucose using viologen mediators for glucose fuel cell applications with non-precious anodes. <i>Applied Energy</i> , 2020, 261, 114382.	10.1	13
6	Influence of variability in testing parameters on cookstove performance metrics based on the water boiling test. <i>Energy for Sustainable Development</i> , 2020, 58, 112-118.	4.5	6
7	Measurement and prediction of mass transfer coefficients for syngas constituents in a hollow fiber reactor. <i>Bioresource Technology</i> , 2019, 276, 1-7.	9.6	17
8	Soluble viologen polymers as carbohydrate oxidation catalysts for alkaline carbohydrate fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 416-421.	3.8	11
9	Continuous Ethanol Production from Synthesis Gas by <i>Clostridium ragsdalei</i> in a Trickle-Bed Reactor. <i>Fermentation</i> , 2017, 3, 23.	3.0	48
10	Uncertainty analysis and design guidelines of biomass cookstove thermal efficiency studies. <i>Energy for Sustainable Development</i> , 2016, 34, 54-61.	4.5	5
11	Estimation of transient thermal efficiency of a biomass cookstove. <i>Energy for Sustainable Development</i> , 2016, 33, 122-128.	4.5	4
12	Ethanol production during semi-continuous syngas fermentation in a trickle bed reactor using <i>Clostridium ragsdalei</i> . <i>Bioresource Technology</i> , 2016, 209, 56-65.	9.6	86
13	Prediction of methyl viologen redox states for biological applications. <i>Biochemical Engineering Journal</i> , 2015, 94, 15-21.	3.6	11
14	Impact of co-firing a traditional Peruvian biomass cookstove with biogas on emissions and combustion efficiency. , 2014, , .		0
15	Syngas fermentation to biofuels: Effects of hydrogen partial pressure on hydrogenase efficiency. <i>Biomass and Bioenergy</i> , 2013, 55, 156-162.	5.7	33
16	A comparison of mass transfer coefficients between trickle-bed, hollow fiber membrane and stirred tank reactors. <i>Bioresource Technology</i> , 2013, 133, 340-346.	9.6	115
17	Syngas fermentation to biofuels: Effects of ammonia impurity in raw syngas on hydrogenase activity. <i>Biomass and Bioenergy</i> , 2012, 45, 303-310.	5.7	45
18	Mass Transfer and Kinetic Limitations During Synthesis Gas Fermentation by Acetogenic Bacteria. , 2011, , .		0

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19	A thermodynamic analysis of electron production during syngas fermentation. <i>Bioresource Technology</i> , 2011, 102, 8071-8076.	9.6	37
20	The effects of syngas impurities on syngas fermentation to liquid fuels. <i>Biomass and Bioenergy</i> , 2011, 35, 2690-2696.	5.7	118
21	Carbon monoxide partial pressure effects on the metabolic process of syngas fermentation. <i>Biochemical Engineering Journal</i> , 2010, 48, 159-165.	3.6	120
22	Sulfide assessment in bioreactors with gas replacement. <i>Biochemical Engineering Journal</i> , 2010, 49, 429-434.	3.6	19
23	Syngas Fermentation to Ethanol: Challenges and Opportunities. , 2010, , 225-246.		0
24	Analysis of functionalized polyethylene terephthalate with immobilized NTPDase and cysteine. <i>Acta Biomaterialia</i> , 2009, 5, 3382-3393.	8.3	29
25	Fermentation of biomass-generated synthesis gas: Effects of nitric oxide. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1080-1086.	3.3	106
26	Effect of pH and Metal Ions on the Decomposition Rate of S-nitrosocysteine. <i>Annals of Biomedical Engineering</i> , 2007, 35, 1554-1560.	2.5	15
27	Effects of biomass-generated producer gas constituents on cell growth, product distribution and hydrogenase activity of <i>Clostridium carboxidivorans</i> P7T. <i>Biomass and Bioenergy</i> , 2006, 30, 665-672.	5.7	112
28	Improved hemocompatibility of poly(ethylene terephthalate) modified with various thiol-containing groups. <i>Biomaterials</i> , 2005, 26, 3479-3485.	11.4	52
29	Fermentation of biomass-generated producer gas to ethanol. <i>Biotechnology and Bioengineering</i> , 2004, 86, 587-594.	3.3	203
30	Nitric Oxide Delivery in Stagnant Systems via Nitric Oxide Donors: A Mathematical Model. <i>Chemical Research in Toxicology</i> , 2003, 16, 7-14.	3.3	9
31	Free Radical Profiles in an Encapsulated Pancreatic Cell Matrix Model. <i>Annals of Biomedical Engineering</i> , 2002, 30, 721-730.	2.5	11
32	Formation of ethanol from carbon monoxide via a new microbial catalyst. <i>Biomass and Bioenergy</i> , 2002, 23, 487-493.	5.7	115
33	Improved haemocompatibility of cysteine-modified polymers via endogenous nitric oxide. <i>Biomaterials</i> , 2002, 23, 1197-1203.	11.4	74
34	Effects of Nitric Oxide (NO) and Soluble Nucleoside Triphosphate Diphosphohydrolase (NTPDase) on Inhibition of Platelet Deposition In Vitro. <i>Thrombosis Research</i> , 2001, 102, 331-341.	1.7	14
35	Influence of Agonist, Shear Rate, and Perfusion Time on Nitric Oxide Inhibition of Platelet Deposition. <i>Annals of Biomedical Engineering</i> , 2000, 28, 174-181.	2.5	13
36	Nitric Oxide, Superoxide, and Peroxynitrite Effects on the Insulin Secretion and Viability of β TC3 Cells. <i>Annals of Biomedical Engineering</i> , 2000, 28, 102-109.	2.5	14

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37	Design of a Novel Apparatus to Study Nitric Oxide (NO) Inhibition of Platelet Adhesion. <i>Annals of Biomedical Engineering</i> , 1998, 26, 1036-1043.	2.5	18
38	Novel Devices for the Predictable Delivery of Nitric Oxide to Aqueous Solutions. <i>Chemical Research in Toxicology</i> , 1998, 11, 1346-1351.	3.3	9
39	Measurement and Modeling of Nitric Oxide Release Rates for Nitric Oxide Donors. <i>Chemical Research in Toxicology</i> , 1997, 10, 408-413.	3.3	75
40	Stirred reactor with continuous nitric oxide sampling for use in kinetic studies. <i>Methods in Enzymology</i> , 1996, 268, 247-259.	1.0	2
41	Kinetic Analysis of the Fate of Nitric Oxide Synthesized by Macrophages in Vitro. <i>Journal of Biological Chemistry</i> , 1995, 270, 29350-29355.	3.4	147
42	Kinetics of N-Nitrosation in Oxygenated Nitric Oxide Solutions at Physiological pH: Role of Nitrous Anhydride and Effects of Phosphate and Chloride. <i>Journal of the American Chemical Society</i> , 1995, 117, 3933-3939.	13.7	137
43	Kinetics of the Reaction of Nitric Oxide with Oxygen in Aqueous Solutions. <i>Chemical Research in Toxicology</i> , 1994, 7, 568-574.	3.3	283
44	The influence of delivery rate on the chemistry and biological effects of nitric oxide. [Erratum to document cited in CA119:243440]. <i>Chemical Research in Toxicology</i> , 1994, 7, 469-469.	3.3	0
45	Membrane mass spectrometer inlet for quantitation of nitric oxide. <i>Biological Mass Spectrometry</i> , 1993, 22, 45-52.	0.5	26
46	The influence of delivery rate on the chemistry and biological effects of nitric oxide. <i>Chemical Research in Toxicology</i> , 1993, 6, 895-899.	3.3	76