Lee H Spangler

List of Publications by Year
in descending order

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53 papers	1,955 citations	257357 24 h-index	243529 44 g-index
54 all docs	54 docs citations	54 times ranked	1606 citing authors

#	Article	IF	Citations
1	Skin factor and potential formation damage from chemical and mechanical processes in a naturally fractured carbonate aquifer with implications to CO2 sequestration. International Journal of Greenhouse Gas Control, 2021, 108, 103326.	2.3	12
2	Potential CO2 and brine leakage through wellbore pathways for geologic CO2 sequestration using the National Risk Assessment Partnership tools: Application to the Big Sky Regional Partnership. International Journal of Greenhouse Gas Control, 2019, 81, 44-65.	2.3	39
3	Approximate solutions for diffusive fractureâ€matrix transfer: Application to storage of dissolved CO₂ in fractured rocks. Water Resources Research, 2017, 53, 1746-1762.	1.7	19
4	Geologic carbon sequestration injection wells in overpressured storage reservoirs: estimating area of review. , 2016, 6, 775-786.		7
5	Bulk electric conductivity response to soil and rock CO2 concentration during controlled CO2 release experiments: Observations and analytic modeling. Geophysics, 2015, 80, E293-E308.	1.4	2
6	Looking for leakage or monitoring for public assurance?. Energy Procedia, 2014, 63, 3881-3890.	1.8	25
7	The First Brazilian Field Lab Fully Dedicated to CO2 MMV Experiments: A Closer Look at atmospheric Leakage Detection. Energy Procedia, 2014, 63, 6215-6226.	1.8	6
8	The First Brazilian Field Lab Fully Dedicated to CO2 MMV Experiments: From the Start-up to the Initial Results. Energy Procedia, 2014, 63, 6227-6238.	1.8	7
9	Physiological responses of dandelion and orchard grass leaves to experimentally released upwelling soil CO2. International Journal of Greenhouse Gas Control, 2014, 24, 139-148.	2.3	13
10	Process-based soil gas leakage assessment at the Kerr Farm: Comparison of results to leakage proxies at ZERT and Mt. Etna. International Journal of Greenhouse Gas Control, 2014, 30, 42-57.	2.3	32
11	Pre-site Characterization Risk Analysis for Commercial-Scale Carbon Sequestration. Environmental Science & Technology, 2014, 48, 3908-3915.	4.6	90
12	Comparison of Long-Wave Infrared Imaging and Visible/Near-Infrared Imaging of Vegetation for Detecting Leaking ${m CO}_2$ Gas. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1651-1657.	2.3	8
13	Delineating Area of Review in a System with Pre-injection Relative Overpressure. Energy Procedia, 2014, 63, 3715-3722.	1.8	4
14	Observed response of soil O2 concentration to leaked CO2 from an engineered CO2 leakage experiment. International Journal of Greenhouse Gas Control, 2013, 16, 116-128.	2.3	33
15	Potential CO₂ Leakage Reduction through Biofilm-Induced Calcium Carbonate Precipitation. Environmental Science & Technology, 2013, 47, 142-149.	4.6	173
16	Abandoned well CO₂ leakage mitigation using biologically induced mineralization: current progress and future directions. , 2013, 3, 40-49.		32
17	Detection of Leaking CO${_{2}}$ Gas With Vegetation Reflectances Measured By a Low-Cost Multispectral Imager. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 699-706.	2.3	14
18	Experimental observation of signature changes in bulk soil electrical conductivity in response to engineered surface CO2 leakage. International Journal of Greenhouse Gas Control, 2012, 7, 20-29.	2.3	19

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19	Laser-based carbon dioxide monitoring instrument testing during a 30-day controlled underground carbon release field experiment. International Journal of Greenhouse Gas Control, 2011, 5, 138-145.	2.3	14
20	Microbially Enhanced Carbon Capture and Storage by Mineral-Trapping and Solubility-Trapping. Environmental Science & Technology, 2010, 44, 5270-5276.	4.6	231
21	Foreword to the Special Issue on Zero Emission Research and Technology Center testing field site, Bozeman, Montana, USA. Environmental Earth Sciences, 2010, 60, 225-225.	1.3	1
22	A shallow subsurface controlled release facility in Bozeman, Montana, USA, for testing near surface CO2 detection techniques and transport models. Environmental Earth Sciences, 2010, 60, 227-239.	1.3	146
23	Multi-spectral imaging of vegetation for detecting CO2 leaking from underground. Environmental Earth Sciences, 2010, 60, 313-323.	1.3	34
24	Studying the vegetation response to simulated leakage of sequestered CO2 using spectral vegetation indices. Ecological Informatics, 2010, 5, 379-389.	2.3	46
25	Biofilm enhanced geologic sequestration of supercritical CO2. International Journal of Greenhouse Gas Control, 2009, 3, 90-99.	2.3	95
26	A controlled field pilot for testing near surface CO2 detection techniques and transport models. Energy Procedia, 2009, 1, 2143-2150.	1.8	35
27	Testing carbon sequestration site monitor instruments using a controlled carbon dioxide release facility. Applied Optics, 2008, 47, 548.	2.1	22
28	Optical detection of honeybees by use of wing-beat modulation of scattered laser light for locating explosives and land mines. Applied Optics, 2006, 45, 1839.	2.1	50
29	Millisecond long-lived charge separated state at room temperature in a flexibly linked diphenylaminopolyene-C60 dyad. Chemical Communications, 2005, , 1067.	2.2	1
30	Polarization lidar measurements of honey bees in flight for locating land mines. Optics Express, 2005, 13, 5853.	1.7	94
31	Optical Engineering. Optics and Photonics News, 2005, 16, 32.	0.4	0
32	Use of Isosbestic Points for Determination of Quantum Efficiency in Transient Absorption Spectroscopy. Journal of Physical Chemistry A, 2002, 106, 1701-1707.	1.1	15
33	Photoinduced Electron Transfer between C60 and Bis-Diphenylamino (Diphenylpolyenes), Measurement of Intrinsic Quantum Efficiency. Journal of Physical Chemistry A, 2001, 105, 10978-10985.	1.1	1
34	High Resolution Time and Frequency Resolved Spectroscopy for the Study of Photophysical Processes in Luminescent Materials. Materials Research Society Symposia Proceedings, 1999, 560, 145.	0.1	0
35	Fourier Transform Techniques for Measuring Absorption of Transient Species Inoptical Limiting Materials. Materials Research Society Symposia Proceedings, 1999, 597, 345.	0.1	0
36	Photo-Induced Effects in Mn4+:YAG. Observation of Unusually Efficient Excited State Absorption and a Longâ€“Lived Metastable State. Materials Research Society Symposia Proceedings, 1999, 597, 419.	0.1	0

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37	Structural Information from Methyl Rotors:Â Methyl Torsional Barriers inp-Hydroxy-pâ€˜-Methyl-t-Stilbene and Its Water Complexes. Journal of Physical Chemistry A, 1997, 101, 5431-5436.	1.1	8
38	STRUCTURAL INFORMATION FROM METHYL INTERNAL ROTATION SPECTROSCOPY. Annual Review of Physical Chemistry, 1997, 48, 481-510.	4.8	60
39	Resolution of different conformers of methoxy-trans-stilbenes via rotational coherence spectroscopy. Chemical Physics Letters, 1995, 238, 313-318.	1.2	10
40	Remote Substituent Effects on Methyl Torsional Barriers: trans-p-Amino-p'-methylstilbene. The Journal of Physical Chemistry, 1995, 99, 3047-3052.	2.9	20
41	Substituent Effects on Torsional Barriers: p-Methoxy- and p-Methoxy-p'-methyl-trans-stilbene. The Journal of Physical Chemistry, 1995, 99, 9316-9324.	2.9	21
42	Methyl rotor effects in 3- and 5-methylindole. The Journal of Physical Chemistry, 1992, 96, 5771-5778.	2.9	20
43	Ring mediated coupling of the internal motions of the amine and methyl groups inpâ€methylaniline. Journal of Chemical Physics, 1992, 96, 4106-4117.	1.2	37
44	1La transitions of jet-cooled 3-methylindole. Chemical Physics Letters, 1992, 193, 532-538.	1.2	38
45	Two-photon fluorescence excitation spectra of indole in vapor and jet: 1La states. The Journal of Physical Chemistry, 1990, 94, 7340-7342.	2.9	59
46	A rotationally resolved phosphorescence excitation spectrum of the lowest triplet state of pyrazine. Chemical Physics Letters, 1989, 161, 347-352.	1.2	12
47	Hindered internal rotation in some singly methylated transâ€stilbenes. Journal of Chemical Physics, 1988, 88, 6768-6777.	1.2	18
48	Additional evidence for planarity in isolated trans-stilbene: a study of .alpha.-deuterio-trans-stilbene. The Journal of Physical Chemistry, 1987, 91, 6077-6079.	2.9	32
49	Assignment of the low-frequency modes in trans-stilbene: evidence for planarity in the isolated molecule. The Journal of Physical Chemistry, 1987, 91, 2782-2786.	2.9	79
50	Laserâ€induced phosphorescence spectroscopy in supersonic jets. The lowest triplet states of glyoxal, methylglyoxal, and biacetyl. Journal of Chemical Physics, 1986, 84, 4789-4796.	1.2	77
51	Rotational analysis of some vibronic bands in the 3Auâ†1Ag transition of glyoxal. Spin splittings in the lowest triplet state of the isolated molecule. Journal of Chemical Physics, 1986, 85, 3229-3236.	1.2	30
52	Intersystem crossing in isolated molecules. Magnetic field effects on the fluorescence decay behavior of 1B3u pyrazine with â€˜â€˜singleâ€™â€™ rovibronic level excitation. Journal of Chemical Physics, 1984, 80, 5539-5544.	1.2	80
53	Direct laser excitation of triplet states in supersonic jets. Rotationally resolved 3Au .rarw. 1Ag excitation spectrum of glyoxal. The Journal of Physical Chemistry, 1983, 87, 4781-4783.	2.9	33