Lee H Spangler

List of Publications by Year in descending order

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

#	Article	IF	Citations
1	Microbially Enhanced Carbon Capture and Storage by Mineral-Trapping and Solubility-Trapping. Environmental Science & Environmental Science & Environme	4.6	231
2	Potential CO ₂ Leakage Reduction through Biofilm-Induced Calcium Carbonate Precipitation. Environmental Science & Eamp; Technology, 2013, 47, 142-149.	4.6	173
3	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
4	Biofilm enhanced geologic sequestration of supercritical CO2. International Journal of Greenhouse Gas Control, 2009, 3, 90-99.	2.3	95
5	Polarization lidar measurements of honey bees in flight for locating land mines. Optics Express, 2005, 13, 5853.	1.7	94
6	Pre-site Characterization Risk Analysis for Commercial-Scale Carbon Sequestration. Environmental Science & Environmental Scien	4.6	90
7	Intersystem crossing in isolated molecules. Magnetic field effects on the fluorescence decay behavior of 1B3u pyrazine with â€~â€~single'' rovibronic level excitation. Journal of Chemical Physics, 1984, 80, 5539-5544.	1.2	80
8	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
9	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
10	STRUCTURAL INFORMATION FROM METHYL INTERNAL ROTATION SPECTROSCOPY. Annual Review of Physical Chemistry, 1997, 48, 481-510.	4.8	60
11	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
12	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
13	Studying the vegetation response to simulated leakage of sequestered CO2 using spectral vegetation indices. Ecological Informatics, 2010, 5, 379-389.	2.3	46
14	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
15	1La transitions of jet-cooled 3-methylindole. Chemical Physics Letters, 1992, 193, 532-538.	1.2	38
16	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
17	A controlled field pilot for testing near surface CO2 detection techniques and transport models. Energy Procedia, 2009, 1, 2143-2150.	1.8	35
18	Multi-spectral imaging of vegetation for detecting CO2 leaking from underground. Environmental Earth Sciences, 2010, 60, 313-323.	1.3	34

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19	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
20	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
21	Additional evidence for planarity in isolated trans-stilbene: a study of .alphadeuterio-trans-stilbene. The Journal of Physical Chemistry, 1987, 91, 6077-6079.	2.9	32
22	Abandoned well CO ₂ leakage mitigation using biologically induced mineralization: current progress and future directions., 2013, 3, 40-49.		32
23	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
24	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
25	Looking for leakage or monitoring for public assurance?. Energy Procedia, 2014, 63, 3881-3890.	1.8	25
26	Testing carbon sequestration site monitor instruments using a controlled carbon dioxide release facility. Applied Optics, 2008, 47, 548.	2.1	22
27	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
28	Methyl rotor effects in 3- and 5-methylindole. The Journal of Physical Chemistry, 1992, 96, 5771-5778.	2.9	20
29	Remote Substituent Effects on Methyl Torsional Barriers: trans-p-Amino-p'-methylstilbene. The Journal of Physical Chemistry, 1995, 99, 3047-3052.	2.9	20
30	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
31	Approximate solutions for diffusive fractureâ€matrix transfer: Application to storage of dissolved CO ₂ in fractured rocks. Water Resources Research, 2017, 53, 1746-1762.	1.7	19
32	Hindered internal rotation in some singly methylated transâ€stilbenes. Journal of Chemical Physics, 1988, 88, 6768-6777.	1.2	18
33	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
34	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
35	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
36	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

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37	A rotationally resolved phosphorescence excitation spectrum of the lowest triplet state of pyrazine. Chemical Physics Letters, 1989, 161, 347-352.	1.2	12
38	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
39	Resolution of different conformers of methoxy-trans-stilbenes via rotational coherence spectroscopy. Chemical Physics Letters, 1995, 238, 313-318.	1.2	10
40	Structural Information from Methyl Rotors: 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
41	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
42	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
43	Geologic carbon sequestration injection wells in overpressured storage reservoirs: estimating area of review., 2016, 6, 775-786.		7
44	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
45	Delineating Area of Review in a System with Pre-injection Relative Overpressure. Energy Procedia, 2014, 63, 3715-3722.	1.8	4
46	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
47	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
48	Millisecond long-lived charge separated state at room temperature in a flexibly linked diphenylaminopolyene-C60 dyad. Chemical Communications, 2005, , 1067.	2.2	1
49	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
50	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
51	Fourier Transform Techniques for Measuring Absorption of Transient Species Inoptical Limiting Materials. Materials Research Society Symposia Proceedings, 1999, 597, 345.	0.1	0
52	Photo-Induced Effects in Mn4+:YAG. Observation of Unusually Efficient Excited State Absorption and a Long–Lived Metastable State. Materials Research Society Symposia Proceedings, 1999, 597, 419.	0.1	0
53	Optical Engineering. Optics and Photonics News, 2005, 16, 32.	0.4	0