

Appendix

Publications

(January 1 through December 31, 2004)

Papers Published in Peer-Reviewed Journals and Books

Arranged alphabetically by Journal title.

We have attempted to note LLNL authors where there are multiple institutions.

Primary Division affiliation is shown (many cross Division boundaries).

A

- Imhoff, P.T., Univ. of Delaware; Tompson, A.F.B., LLNL; A Tribute to George F. Pinder Adv. Water Resources 27(4), 307-309 Env Sci
- Cahill, T.A., Cliff, S.S., Perry, K.D., Jimenez-Cruz, M., Bench, G., LLNL; Grant, P.G., LLNL; Ueda, D., Shackelford, J.F., Dunlap, M., Meier, M., Kelly, P.B., Riddle, S., Selco, J., Leifer, R. Analysis of Aerosols from the World Trade Center Collapse Site, New York, October 2 to October 30, 2001 Aerosol Sci. Technol. 38, 165-183 Env Sci
- Lin, Y., Dueker, S.R., Follett, J.R., Fadel, J.G., Arjoumand, A., Schneider, P.D., Miller, J.W., Green, R., Buchholz, B.A., LLNL; Vogel, J.S., LLNL; Phair, R.D., Clifford, A.J.; Quantitation of in vivo human folate metabolism Am. J. Clin. Nutr. 80(3), 680-691 Env Sci
- Fridriksson, T., Stanford University; Neuhoﬀ, P.S., University of Florida; B.E., LLNL; Bird, D.K., Stanford University; Viani, Experimental Determination of Thermodynamic Properties of Ion-Exchange in Heulandite: Binary Ion-Exchange Experiments at 55 and 85°C Involving Ca²⁺, Sr²⁺, Na⁺, and K⁺ Am. J. Science 304, 287-332 Env Sci
- Love, A.H., Hunt, J.R., Vogel, J.S., LLNL; Knezovich, J.P., LLNL; Improving tritium exposure reconstructions using accelerator mass spectrometry Anal. Bioanal Chem. 379(2), 198-203 Env Sci
- Palmblad, M., LLNL; Bench, G., LLNL; Vogel, J.S., LLNL; Mass by Energy Loss Quantitation as a Practical Sub-Microgram Balance Anal. Chem. 77, 952-953; DOI: 10.1021/ac048560u Env Sci

B

- Phillips, T.J., LLNL; Potter, G.L., LLNL; Williamson, D.L., National Center for Atmospheric Research; Cederwall, R.T., LLNL; Boyle, J.S., LLNL; Fiorino, M., LLNL; Hrilo, J.J., LLNL; Olson, J.G., National Center for Atmospheric Research; Xie, S., LLNL; Yio J.J., LLNL; The CCPP-ARM Parameterization Testbed (CAPT): Where Climate Simulation Meets Weather Prediction Bull. Atmospheric Sciences 85, 1903-1915 Atm Sci
- Malagnini, L., Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy; Mayeda, K.M., LLNL; Akinci, A., Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy; Bragato, P.L., Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy; Estimating Absolute Site Effects Bull. Seismology Society of America 94(4), 1343-1352 Earth Sci

C

- Kerr-Ferrey, L.A., Moss Landing Marine Laboratories; Andrews, A.H., Moss Landing Marine Laboratories; Frantz, B.R., LLNL; Coale, K.H., Moss Landing Marine Laboratories; Brown, T.A., LLNL; Cailliet, G.M., Moss Landing Marine Laboratories; Radiocarbon in otoliths of yelloweye rockfish (*Sebastes ruberrimus*): a reference time series for the coastal waters of southeast Alaska Canadian J. Fisheries and Env Aquatic Sciences 61, 443 Sci
- Rard, J.A., LLNL; Wijesinghe, A.M., LLNL; Wolery, T.J., LLNL; Review of the Thermodynamic Properties of Mg(NO₃)₂(ap), and Their Representation with the Standard and Extended Ion-Interaction (Pitzer) Models at 298.15 K Chemical and Engineering Data 49, 1127-1140 Env Sci
- Baumann, T., Gash, A., Chinn, S., Sawvel, A., LLNL; Maxwell, R., LLNL; Satcher Jr., J. Synthesis of High Surface Area Alumina Aerogels without the Use of Alkoxide Precursors Chemistry of Materials 17, 395-401 Env Sci
- Love, A.H., LLNL; Vance, A.L., LLNL; Reynolds, J.G., LLNL; Davisson, M.L., LLNL; Investigating the Affinities and Persistence of VX Nerve Agent in Environmental Matrices Chemosphere 57, 1257-1264. Env Sci
- Keating, G.A., LLNL; Bogen, K.T., LLNL; Estimates of heterocyclic amine intake in the US population Chromatography B 802, 127-133 Env Sci
- Coquard, J., LLNL; Duffy, P.B., LLNL; Taylor, K.E., LLNL; Iorio, J.P., Stanford University; Present and future surface climate in the western USA as simulated by 15 global climate models Climate Dynamics 23, 455-472 Atm Sci
- Hannachi, A., Stephenson, D.B., Sperber, K.R., LLNL Probability-based methods for quantifying nonlinearity in the ENSO (vol 20), pg 241, 2003 Climate Dynamics 22(1), 69-70 Atm Sci
- Iorio J., Duffy, P.B., LLNL; Govindasamy, B., LLNL Effects of Model Resolution and Subgrid-Scale Physics on the Simulation of Daily Precipitation in the Continental United States Climate Dynamics 23(3-4), 243-258 Atm Sci
- Sperber, K.R., LLNL; Gualdi, S., National Inst. of Geophysics and Volcanology, Italy; Legutke, S., M & D Group, Germany; Gayler, V., M & D Group, Germany; The Madden-Julian Oscillation in ECHAM4 Coupled and Uncoupled GCMs Climate Dynamics 23(3-4), 259-278 Atm Sci

D

- Sandhu, P., Vogel, J.S., LLNL; Rose, M.J., Ubick, E.A., Brunner, J.E., Wallace, M.A., Adelsberger, J.K., Baker, M.P., Henderson, P.T., Pearson, P.G., Baillie, T.A. Evaluation of microdosing strategies for studies in preclinical drug development: demonstration of linear pharmacokinetics in dogs of a nucleoside analog over a 50-fold dose range Drug Metab. Dispos. 32(11), 1254-9 Env Sci

E

- Daeron, M., IPG, Paris; Benedetti, L., CEREGE, Aix-en Provence, France; Tapponnier, P., IPG, Paris; Sursock, A., National Geophysics Center, Beirut; Finkel, R., LLNL; Constraints on the post 30 ka slip rate of the Yammouneh fault (Lebanon) using in situ cosmogenic ^{36}Cl dating of offset limestone fans Earth and Planetary Sciences 227(1-2), 105-119 Env Sci
- Palumbo, L., CEREGE, Aix en Provence; Benedetti, L., CEREGE, Aix en Provence; Bourles, D., CEREGE, Aix en Provence; Cinque, A., University Federico II, Naples; Finkel, R., LLNL; Slip history of the Magnola fault (Apennines, Central Italy) from ^{36}Cl surface exposure dating: Evidence for strong earthquakes over the Holocene Earth and Planetary Science Letters 225(1-2), 163-176 Env Sci
- Riebe, C.S., UC Berkeley; Kirchner, J.W., UC Berkeley; Finkel, R.C., LLNL; Sharp decrease in long-term chemical weathering rates along an altitudinal transect Earth and Planetary Science Letters 218(3-4), 421-434 Env Sci
- Riebe, C.S., UC Berkeley; Kirchner, J.W., UC Berkeley; Finkel, R.C., LLNL; Erosional and climatic effects on long-term chemical weathering rates in granitic landscapes spanning diverse climate regimes Earth and Planetary Science Letters 224(3-4), 547-562 Env Sci
- Bench, G., LLNL; Measurement of contemporary and fossil carbon contents of PM 2.5 aerosols: results from Turtleback Dome, Yosemite National Park Environmental Science and Technology 38, 2424-2427 Env Sci

F

- Friedmann, S.J., LLNL; Homer-Dixon, T., Univ. Toronto; The Energy Box Foreign Affairs 83(6), 71-82 Env Sci

G

- Johnson, J.W., LLNL; Nitao, J.J., LLNL; Knauss, K.G., LLNL; Reactive Transport Modeling of CO₂ Storage in Saline Aquifers to Elucidate Fundamental Processes, Trapping Mechanisms, and Sequestration Partitioning Geological Society of London Special Publication 233, 107-128 Env Sci
- Stock, G.M., UC Santa Cruz; Anderson, R.S., UC Santa Cruz; Finkel, R.C., LLNL; Pace of Landscape Evolution in the Sierra Nevada, California, Revealed by Cosmogenic Dating of Cave Sediments Geology 32(3), 193-196 Env Sci
- Barnard, P.L., LLNL; Owen, L.A., UC Riverside; Sharma, M.C., Nehru University, New Delhi, India; Finkel, R.C., LLNL; Late Quaternary (Holocene) landscape evolution of a monsoon-influenced high Himalayan valley, Gori Ganga, Nanda Devi, NE Garhwal Geomorphology 61(1-2), 91-110 Env Sci

Morasca, P., University of Genova; Mayeda, K., LLNL; Malagnini, L., INGV, Rome; Walter, W., LLNL;	Coda-Derived Source Spectra, Moment Magnitudes, and Energy-Moment Scaling in the Western Alps	Geophys. J. Int. 160, doi: Earth 10.1111/j.1365- Sci 246X.2005.02491.x
Eken, T., Bogazici University; Mayeda, K., LLNL, Hofstetter G.A.; Gök, R., LLNL; Örgülü, G., Bogazici University; Turkelli, N., Bogazici University;	An Application of the Coda Methodology for Moment-rate Spectra Using Broadband Stations in Turkey	Geophys. Res. Letters 31, Earth L11609, Sci doi:10.1029/2004GL0196 27
Matsumoto, K., Sarmiento, J.L., Key, R.M., Aumont, O., Bullister, J.L., Caldeira, K., LLNL; Campin, J.M., Doney, S.C., Drange, H., Dutay, J.C., Follows, M., Gao, Y., Gnanadesikan, A., Gruber, N., Ishida, A., Joos, F., Lindsay, K., Maier-Reimer, E., Marshall, J.C., Mearns, R.J., Monfray, P., Mouchet, A., Najjar, R., Plattner, G.K., Schlitzer, R., Slater, R., Swathi, P.S., Totterdell, I.J., Weirig, M.F., Yamanaka, Y., Yool, A., Orr, J.C.	Evaluation of ocean carbon cycle models with data-based metrics	Geophys. Res. Letters 31: Atm Art. No. L007303 Sci
Thompson, S.L., Govindasamy, B. Mirin, A.	Quantifying the effects of CO ₂ - fertilized vegetation on future global climate and carbon dynamics	Geophys. Res. Letters Atm 31(23): Art. No. L23211 Sci
Covey, C., AchutaRao, K., Gleckler, P.	Coupled ocean-atmosphere climate simulations compared with simulations using prescribed sea surface temperature: effect of a "perfect ocean"	Global and Planetary Atm Change 41(1), 1-14 Sci
Doney, S.C., Lindsay, K., Caldeira, K., Campin, J.M., Drange, H., Dutay, J.C., Follows, M., Gao, Y., Gnanadesikan, A., Gruber, N., Ishida, A. Joos, F., Madec, G., Maier-Reimer, E., Marshall, J.C., Mearns, R.J., Monfray, P., Mouchet, A., Najjar, R., Orr, J.C., Plattner, G.K., Sarmiento, J., Schlitzer, R., Slater, R., Totterdell, I.J., Weirig, M.F., Yamanaka, Y., Yool, A.	Evaluating global ocean carbon models: The importance of realistic physics	Global Biogeochemical Atm Cycles 18(3): Art. No. Sci GB3017
I		
Connaire, M.O., Curran, H.J., Simmie, J.M., Pitz, W.J., Westbrook, C.K.	A Comprehensive Modeling Study of Hydrogen Oxidation	Int. J. Chemical Kinetics Enrgy 36, 603-622 Tech
Raber, E., LLNL; Carlsen, T., LLNL; Folks, K., LLNL; Kirvel, R., LLNL; Daniels, J., LLNL; Bogen, K.T., LLNL;	How clean is clean enough? Recent developments in response to threats posed by chemical and biological warfare agents	Int. J. Environmental Env Health Research 14(1), Sci 31-41

J

Li, Y., Shawgo, R.S., Tyler, B., Henderson, P.T., Vogel, J.S., Rosenberg, A., Storm, P.B., Langer, R., Brem, H., Cima, M.J.	In vivo release from a drug delivery MEMS device	J. Control Release 100(2), 211-9	Env Sci
Roberts, J.J., Wildenschild, D., LLNL;	Electrical Properties of Sand-clay Mixtures Containing Trichloroethylene and Ethanol	J. Env. & Engineering Geophysics 9, 1-10	Earth Sci
Schaldach, C.M., Bourcier, W.L., Paul, P.H., Wilson, W.D.	Electrostatic potentials and fields in the vicinity of engineered nanostructures	J. Colloid and Int. Sci. 275, 601	Env Sci
Calhoun, R., LLNL; Gouveia, F., LLNL; Shinn, J., LLNL; Chan, S., LLNL; Stevens, D., LLNL; Lee, R., LLNL; Leone, J., LLNL;	Flow Around a Complex Building: Comparisons between Experiments and RANS	J. Applied Meteorology 43(5), 696-710	Atm Sci
Berryman, J.G., LLNL;	Bounds on Elastic Constants for Random Polycrystals of Laminates	J. Applied Physics 96, 4281	Earth Sci
Piper, M., Program in Atmospheric and Oceanic Sciences, University of Colorado at Boulder; Lundquist, J.K., LLNL;	Surface-layer turbulence measurements during a frontal passage	J. Atm. Sci. 16(14), 1768-1780	Atm Sci
Palmblad, M., LLNL; Vogel, J.S., LLNL;	Quantitation of Binding, Recovery and Desalting Efficiency of Peptides and Proteins in Solid Phase Extraction Micropipette Tips	J. Chromatography B 814, 309-313	Env Sci
Duffy, P.B., LLNL; Iorio, J.P., LLNL; Govindasamy, B., LLNL; Thompson, S.L., LLNL; Khairoutdinov, M., Colorado State University; Randall, D., Colorado State University;	Effects of Model Resolution and Subgrid-Scale Physics on the Simulation of Daily Precipitation in the Continental United States	J. Climate, Climate Dynamics 23, 243-258	Atm Sci
Liu, P., University of Hawaii; Wang, B., University of Hawaii; Sperber, K.R., LLNL; Li, T., University of Hawaii; Meehl, G.A., National Center for Atmospheric Research;	The Madden-Julian Oscillation in the National Center for Atmospheric Research Community Atmospheric Model-2 with the Tiedtke Convective Scheme	J. Climate, Climate Dynamics 9/2004	Atm Sci
Considine, D.B., Connell, P.S., Bergmann, D.J., Rotman, D.A., Strahan, S.E.	Sensitivity of Global Modeling Initiative CTM predictions of Antarctic ozone recovery to GCM and DAS generated meteorological fields	J. Geophys. Research 109, D15301	Atm Sci
Meriaux, A., LLNL; Ryerson, F.J., LLNL; Tapponier, P., Van der Woerd, J., LLNL; Finkel, R.C., LLNL; Xu, X.W., Xu, Z., Caffee, M.	Rapid slip along the central Altyn Tagh Fault: Morphochronologic evidence from Cherchen He and Sulamu Tagh	J. Geophys. Research - Solid Earth 109 (B06401), doi:10.1029/2003JB002558	Earth Sci

Mueller, K., Cao, L., Caldeira, K., Jain, A.	Differing methods of accounting ocean carbon sequestration efficiency	J. Geophys. Research-Oceans 109(C12): Art. No. C12018	Atm Sci
Rotman, D.A., Atherton, C.S., Bergmann, D.J., Caneron-Smith, P.J., Chuang, C.C., Connell, P.S., Dignon, J.E., Franz, A., Grant, K.E., Kinnison, D.E., Molenkamp, C.R., Proctor, D.D., Tannahill, J.R.	IMPACT, the LLNL 3-D global atmospheric chemical transport model for the combined troposphere and stratosphere: Model description and analysis of ozone and other trace gases	J. Geophys. Research 109, D04303, doi:10.1029/2002JD003155	Atm Sci
Santer, B., LLNL; Wiglet, T., NCAR; Simmons, A., European Centre for Medium Range Weather Forecasts; Kallberg, P., European Centre; Kelly, G., European Centre; Uppala, S., European Centre; Ammann, C., NCAR; Boyle, J., LLNL; Bruggemann, W., University Birmingham; Doutriaux, C., LLNL; Fiorino, M., LLNL; Mears, C., Remote Sensing Systems; Meehl, G., NCAR; Sausen, R., Deutsches Zentrum für Luft-und Raumfahrt; Taylor, K., LLNL; Washington, W., NCAR; Wehner, M., Lawrence Berkeley National Laboratory; Wentz, F., Remote Sensing Systems;	Identification of Anthropogenic Climate Change Using a Second-Generation Reanalysis	J. Geophys. Research-Atmospheres 109, D21104, doi:10.1029/2004JD005075, 2004	Atm Sci
Xie, S., Cederwall, R.	Developing long-term single-column model/cloud system-resolving model forcing data using numerical weather prediction products constrained by surface and top of the atmosphere observations	J. Geophys. Research 109, D01104	Atm Sci
Xie, S., LLNL; Boyle, J.S., LLNL; Cederwall, R.T., LLNL; Potter, G.L., LLNL; Zhang, M., SUNY at Stony Brook; Lin, W., SUNY at Stony Brook;	Impact of a Revised Convective Triggering Mechanism on CAM2 Model Simulations: Results from Short-Range Weather Forecasts	J. Geophys. Research 109, D14102, doi: 10.1029/2004JD004692, 2004	Atm Sci

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Welten, K.C., UC Berkeley; Nishiizumi, K., UC Berkeley; Finkel, R.C., LLNL; Hillegonds, D.J., LLNL; Jull, A.J.T., University of Arizona; Franke, L., Max-Plancke-Institut für Chemie, Mainz; Schultz, L., Max-Plancke-Institut für Chemie, Mainz;	Exposure History and Terrestrial Ages of Ordinary Chondrites from the Dar Al Gani Region, Libya	Meteoritics and Planetary Science 39(3), 481-498	Env Sci
Enns, L., Cross Cancer Inst., Edmonton, Alberta (Canada); Bogen, K.T., LLNL; Wizniak, J., Cross Cancer Inst., Edmonton, Alberta (Canada); Murtha, A.D., Cross Cancer Inst., Edmonton, Alberta (Canada); Weinfeld, M., Cross Cancer Inst., Edmonton, Alberta (Canada);	Low Dose Radiation Hypersensitivity is Caused by p53-dependent Apoptosis	Molecular Cancer Research 2, 557-566	Env Sci

N

Gillett, N., Santer, B., Weaver, A.	Stratospheric Cooling and the troposphere	Nature, December 2, 2004	Atm Sci
Bergmann, D.J., Chuang, C.C., Rotman, D.A.	LLNL Scientists Use NERSC to Advance Global Aerosol Simulations	NERSC News, August 2004	Atm Sci
Bogen, K., Marchetti, A.A., Brown, T.A.	Use of a Correlated Compound-Binomial Model to Assess Absence of Non-Counting Noise in Pu-Isotope Ratios Measured by AMS at LLNL	Nuclear Instruments and Methods B223-224, 209	Env Sci
Brown, T.A., Marchetti, A.A., Martinelli, R.E., Cox, C.C., Knezovich, J.P., Hamilton, T.F.	Actinide Measurements by Accelerator Mass Spectrometry at Lawrence Livermore National Laboratory	Nuclear Instruments and Methods B223-224, 78	Env Sci
Ognibene, T.J., Bench, G.S., Brown, T.A., Vogel, J.S.	The LLNL Accelerator Mass Spectrometry System for Biochemical ¹⁴ C-Measurements	Nuclear Instruments and Methods B223-224, 12-15	Env Sci
Vuong, L.T., Vitalea Science, Inc.; Buchholz, B.A., LLNL; Lame, M.W., UC-Davis; Dueker, S.R., Vitalea Science, Inc. & UC-Davis;	Phytochemical Research Using Accelerator Mass Spectrometry	Nutrition Reviews 62(10), 375-88	Env Sci

P

Nelson, D.M., University of Illinois; Hu, F.S., University of Illinois; Tian, J., University of Illinois; Stefanova, I., University of Minnesota; Brown, T.A., LLNL;	Response of C3 and C4 plants to middle-Holocene climatic variation near the prairie-forest ecotone of Minnesota, U.S.A.	Proc. of the National Academy of Sciences 101, 562	Env Sci
Pasyanos, M.E., Walter, W.R., Flanagan, M.P., Goldstein, P., Bhattacharya, J., LLNL;	Building and testing an a <i>Prior</i> i Geophysical Model for Western Eurasia and North Africa	Pure and Applied Geophysics 16, 235-281	Earth Sci

Q

Wright Jr., H.E., Stefanova, I., Tian, J., Brown, T.A., Hu, F.S.	A Chronological Framework for the Holocene Vegetational History of Central Minnesota: The Steel Lake Pollen Record	Quaternary Science Reviews 23, 611	Env Sci
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R

- Hughen, K., Woods Hole Oceanographic; Baille, M., Queen's University; Bard, E., CEREGE, Aix-Provence; Beck, J.W., University of Arizona; Bertrand, C.J.H., Woods Hole Oceanographic; Blackwell, P.G., University of Sheffield; Buck, C.E., University of Sheffield; Burr, G.S., University of Arizona; Cutler, K.B., US Department of State; Damon, P.E., University of Arizona; Edwards, R.L., University of Minnesota; Fairbanks, R.G., Columbia University; Friedrich, M., Universität Hohenheim; Guilderson, T.P., LLNL; Kromer, B., Heidelberger Akademie der Wissenschaften; McCormac, F.G., Queen's University; Manning, S., University of Reading; Bronk-Ramsey, C., Oxford University; Reimer, P.J., LLNL; Reimer, R.W., UC Santa Cruz; Remmele, S., Universität Hohenheim; Southon, J.R., UC Irvine; Stuiver, M., University of Washington; Talamo, S., Heidelberger Akademie der Wissenschaften; Taylor, F.W., University of Texas; Van der Plicht, J., Centrum voor Isotopen Onderzoek; Weyhenmeyer, C.E., LLNL;
- Marine04 Marine radiocarbon age calibration, 26 _ 0 ka BP Radiocarbon 46(3), 1059-1086 Env Sci
- Reimer, P.J., LLNL; Brown, T.A., LLNL; Reimer, R.W., Queen's University Belfast; Discussion: Reporting and calibration of post-bomb 14C data Radiocarbon 46(3), 1299 Env Sci
- Van der Plicht, J., Groningen University; Beck, J.W., University of Arizona; Bard, E., CEREGE, Aix-Provence; Baille, M.G.L., Queen's University; Blackwell, P.G., University of Sheffield; Buck, C.E., University of Sheffield; Friedrich, M., Universität Hohenheim; Guilderson, T.P., LLNL; Hughen, K.A., Woods Hole Oceanographic Institution; Kromer, B., Universität Hohenheim; McCormac, F.G., Queen's University; Ramsey, C.B., Oxford University; Reimer, P.J., LLNL; Reimer, R.W., UC Santa Cruz; Reimer, P.J., LLNL; Reimer, R.W., UC Santa Cruz; Remmele, S., Universität Hohenheim; Richards, D.A., University of Bristol; Southon, J.R., UC Irvine; Stuiver, M., University of Washington; Weyhenmeyer, C.E., LLNL;
- NotCal04 - Comparison / Calibration 14C records 26-50 cal kBP Radiocarbon 46(3), 1225-1238 Env Sci
- Vogel, J.S., LLNL; Ognibene, T., LLNL; Palmblad, M., LLNL; Reimer, P., LLNL; Counting Statistics and Ion Interval Density in AMS Radiocarbon 46(3) Env Sci
- Zavarin, M., LLNL; Roberts, S.K., LLNL; Hakem, N., LLNL; Sawvel, A.M., LLNL; Kersting, A.B., LLNL; Eu(III), Sm(III), Np(V), Pu(V), and Pu(IV) Sorption to Calcite 10 Radiochimica Acta 93, 1-10 Env Sci

S

Chevalier, M.-L., Ryerson, F.J., Tapponnier, P., Finkel, R.C., Van Der Woerd, J., Haibing, L., Qing, L.,	Slip-rate measurements on the Karakorum Fault may imply secular variations in fault motion	Science 307, 411-414	Earth Sci
Guilderson, T.P., LLNL; Guilderson, T.P., LLNL; Reimer, P.J., LLNL; Brown, T.A., LLNL;	Timing is Everything: The Boon and Bane of 14C Geochronology	Science 307, 362-364	Env Sci
Marcy, T.P., Fahey, D.W., Gao, R.S., Popp, P.J., Richard, E.C., Thompson, T.L., Rosenlof, K.H., Ray, E.A., Salawitch, R.J., Atherton, C.S., Bergmann, D.J., Ridley, B.A., Weinheimer, A.J., Loewenstein, J., Weinstock, E.M., Mahoney, M.J.	Quantifying stratospheric ozone in the upper troposphere using <i>in situ</i> measurements of HC1	Science 304, 261-265	Atm Sci
Reusser, L.J., University of Vermont; Bierman, P.R., University of Vermont; Pavich, M.J., USGS Reston, VA; Zen, E., University of Maryland; Larsen, J., University of Vermont; Finkel, R., LLNL;	Rapid Late Pleistocene Incision of Passive Margin River Gorges	Science 305, 499-502	Env Sci
Santer, B., Wehner, M., Wigley, M.T., Sausen, R.	Response to comment on "Contributions of Anthropogenic and Natural Forcing to Recent Tropopause Height Changes:	Science 303, 19	Atm Sci
Barnard, P.L., LLNL; Owen, L.A., UC Riverside; Finkel, R.C., LLNL;	Style and timing of glacial and paraglacial sedimentation in a monsoon-influenced high Himalayan environment, the upper Bhagirathi Valley, Garhwal Himalaya	Sedimentary Geology 165, 199-221	Env Sci
Buchholz, B.A., LLNL; Mueller, C.J., Sandia National Laboratory; Upatnieks, A., Sandia National Laboratory; Martin, G.C., Sandia National Laboratory; Pitz, W.J., LLNL; Westbrook, C.K., LLNL;	Using Carbon-14 Isotope Tracing to Investigate Molecular Structure Effects of the Oxygenate Dibutyl Maleateon Soot Emissions from a DI Diesel Engine	Soc. Automotive Engineers, Tech. Paper 2004-01-1849	Env Sci
Heuze, F., LLNL; Archuleta, R., LLNL; Bonilla, F., Day, S., Doroudian, M., Elgamal, A., Hoehler, M., Lai, T., Lavallee, D., Lawrence, B., Liu, P-C., Martin, A., Matesic, L., Mellors, R., Minster, B., Oglesby, D., Park, S., Riemer, M., Steidl, J., Vernon, F., Vucetic, M., Wagoner, J., Yanq, Z.	Estimating Site-Specific Strong Earthquake Motions	Soil Dynamics and Earthquake Engineering 24(3), 199-223	Earth Sci
Robison, W.L., LLNL; Stone, E.L., University of Florida; Hamilton, T.F., LLNL;	Large Plate Lysimeter Efficiency for Collecting Water Transported from Soil to Ground Water	Soil Science 169, 11,758-764	Env Sci
Martin, L.P., Pham, Q., Glass, R.S.	Electrochemical Hydrogen Sensor for Safety Monitoring	Solid State Ionics 175, 527-530	Enrgy Tech

V

Hu, Q., Kneafsey, T.J. Roberts, J.J., Tomutsa, L., and Wang, J.S.Y.	Characterizing Unsaturated Diffusion in Porous Tuff Gravels	Vadose Zone Journal 3(4), 1425-1438	Earth Sci
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Books and Book Sections

Bourcier, W.L., LLNL; Sickafus, K., Los Alamos National Laboratory;	Storing Waste in Ceramics	<i>Uncertainty Underground: Dealing With the Nation's High-level Nuclear Waste</i> , MIT Press, in press	Env Sci
Dingley, K.H., Ubick, E.A., Vogel, J.S., LLNL; Haack, K.	DNA Isolation and Sample Preparation for Quantification of Adduct Levels by Accelerator Mass Spectroscopy	<i>Protocols in Molecular Toxicology</i> , P. Keohavong and S.G. Grant, eds., Humana, Totowa, NJ	Env Sci
Gifford-Gonzales, D., UC Santa Cruz; Newsome, S., UC Santa Cruz; Koch, P., UC Santa Cruz; Guilderson, T., LLNL; Snodgrass, J., Northwestern Univ.; Burton, R., Moss Landing Marine Laboratories;	<i>Archaeofaunal Insights on Pinniped-Human Interactions in the Northeastern Pacific</i> , in press		Env Sci
Hoffert, M.I., Caldeira, K.	Climate Change and Energy — An overview	<i>Encyclopedia of Energy</i> , C. Cleveland, ed., Academic Press, San Diego, CA, 359-380	Atm Sci
Johnson, J.W., LLNL; Nitao, J.J., LLNL; Morris, J.P., LLNL;	Reactive Transport Modeling of Cap Rock Integrity During Natural and Engineered CO ₂ Storage	<i>Carbon Dioxide Capture for Storage in Deep Geologic Formations</i> , D. Thomas and S. Benson, eds., Elsevier, vol 2, pp. 783-809	Env Sci
Pickles, W.L., LLNL; Cover, W.A., UC Santa Cruz;	Hyperspectral Geobotanical Remote Sensing for CO ₂ Storage Monitoring	<i>Carbon Dioxide Capture for Storage in Deep Geologic Formations</i> , D. Thomas and S. Benson, eds., Elsevier, vol 2	Enrgy Tech
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