

Joel E Saylor

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,220
citations

147801

31
h-index

206112

48
g-index

64
all docs

64
docs citations

64
times ranked

2576
citing authors

#	ARTICLE	IF	CITATIONS
1	Loess Plateau storage of Northeastern Tibetan Plateau-derived Yellow River sediment. <i>Nature Communications</i> , 2015, 6, 8511.	12.8	283
2	Quantifying comparison of large detrital geochronology data sets. , 2016, 12, 203-220.		217
3	Out of Tibet: Pliocene Woolly Rhino Suggests High-Plateau Origin of Ice Age Megaherbivores. <i>Science</i> , 2011, 333, 1285-1288.	12.6	164
4	Linking sedimentation in the northern Andes to basement configuration, Mesozoic extension, and Cenozoic shortening: Evidence from detrital zircon U-Pb ages, Eastern Cordillera, Colombia. <i>Bulletin of the Geological Society of America</i> , 2010, 122, 1423-1442.	3.3	153
5	The late Miocene through present paleoelevation history of southwestern Tibet. <i>Numerische Mathematik</i> , 2009, 309, 1-42.	1.4	147
6	Integrated provenance analysis of a convergent retroarc foreland system: U-Pb ages, heavy minerals, Nd isotopes, and sandstone compositions of the Middle Magdalena Valley basin, northern Andes, Colombia. <i>Earth-Science Reviews</i> , 2012, 110, 111-126.	9.1	143
7	Tectonic Evolution of the Central Andean Plateau and Implications for the Growth of Plateaus. <i>Annual Review of Earth and Planetary Sciences</i> , 2017, 45, 529-559.	11.0	127
8	Unmixing detrital geochronology age distributions. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2872-2886.	2.5	124
9	Growth of the Qaidam Basin during Cenozoic exhumation in the northern Tibetan Plateau: Inferences from depositional patterns and multiproxy detrital provenance signatures. <i>Lithosphere</i> , 2016, 8, 58-82.	1.4	123
10	Topographic growth of the Jishi Shan and its impact on basin and hydrology evolution, NE Tibetan Plateau. <i>Basin Research</i> , 2018, 30, 544-563.	2.7	102
11	Magnetic polarity stratigraphy, provenance, and paleoclimate analysis of Cenozoic strata in the Qaidam Basin, NE Tibetan Plateau. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 310-320.	3.3	94
12	Discriminating rapid exhumation from syndepositional volcanism using detrital zircon double dating: Implications for the tectonic history of the Eastern Cordillera, Colombia. <i>Bulletin of the Geological Society of America</i> , 2012, 124, 762-779.	3.3	93
13	Mixing of Source Populations Recorded in Detrital Zircon U-Pb Age Spectra of Modern River Sands. <i>Journal of Geology</i> , 2013, 121, 17-33.	1.4	86
14	Resolving uplift of the northern Andes using detrital zircon age signatures. <i>GSA Today</i> , 2010, , 4-10.	2.0	81
15	Late Miocene topographic inversion in southwest Tibet based on integrated paleoelevation reconstructions and structural history. <i>Earth and Planetary Science Letters</i> , 2009, 282, 1-9.	4.4	78
16	Application of detrital zircon U-Pb geochronology to surface and subsurface correlations of provenance, paleodrainage, and tectonics of the Middle Magdalena Valley Basin of Colombia. , 2015, 11, 1790-1811.		78
17	Nonuniform surface uplift of the Andean plateau revealed by deuterium isotopes in Miocene volcanic glass from southern Peru. <i>Earth and Planetary Science Letters</i> , 2014, 387, 120-131.	4.4	75
18	High late Miocene-Pliocene elevation of the Zhada Basin, southwestern Tibetan Plateau, from carbonate clumped isotope thermometry. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 181-199.	3.3	70

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19	Tracking exhumation of Andean ranges bounding the Middle Magdalena Valley Basin, Colombia. <i>Geology</i> , 2010, 38, 451-454.	4.4	67
20	Andean topographic growth and basement uplift in southern Colombia: Implications for the evolution of the Magdalena, Orinoco, and Amazon river systems. , 2016, 12, 1235-1256.		67
21	Hyperspectral imaging for the determination of bitumen content in Athabasca oil sands core samples. <i>AAPG Bulletin</i> , 2015, 99, 1407-1453.	1.5	56
22	Implications of variable late Cenozoic surface uplift across the Peruvian central Andes. <i>Scientific Reports</i> , 2019, 9, 4877.	3.3	52
23	Evaluating foreland basin partitioning in the northern Andes using Cenozoic fill of the Floresta basin, Eastern Cordillera, Colombia. <i>Basin Research</i> , 2011, 23, 377-402.	2.7	49
24	Basin formation in the High Himalaya by arc-parallel extension and tectonic damming: Zhada basin, southwestern Tibet. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	47
25	Mio-Pleistocene Zanda Basin biostratigraphy and geochronology, pre-Ice Age fauna, and mammalian evolution in western Himalaya. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 374, 81-95.	2.3	47
26	Structural and thermochronological evidence for Paleogene basement-involved shortening in the axial Eastern Cordillera, Colombia. <i>Journal of South American Earth Sciences</i> , 2012, 39, 202-215.	1.4	46
27	Stable isotope variations ($\delta^{18}O$ and δ^2H) in modern waters across the Andean Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 310-324.	3.9	45
28	Paleoelevation records from lipid biomarkers: Application to the tropical Andes. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1604-1616.	3.3	42
29	Controls on the isotopic composition of surface water and precipitation in the Northern Andes, Colombian Eastern Cordillera. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6999-7018.	3.9	39
30	Sources of local and regional variability in the MBT $\delta^{18}O$ /CBT paleotemperature proxy: Insights from a modern elevation transect across the Eastern Cordillera of Colombia. <i>Organic Geochemistry</i> , 2014, 69, 42-51.	1.8	38
31	Characterizing sediment sources by non-negative matrix factorization of detrital geochronological data. <i>Earth and Planetary Science Letters</i> , 2019, 512, 46-58.	4.4	36
32	Provenance of Pennsylvanian-Permian sedimentary rocks associated with the Ancestral Rocky Mountains orogeny in southwestern Laurentia: Implications for continental-scale Laurentian sediment transport systems. <i>Lithosphere</i> , 2020, 12, 88-121.	1.4	36
33	Temperature Control on Silicate Weathering Intensity and Evolution of the Neogene East Asian Summer Monsoon. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088808.	4.0	35
34	Punctuated shortening and subsidence in the Altiplano Plateau of southern Peru: Implications for early Andean mountain building. <i>Lithosphere</i> , 2015, 7, 117-137.	1.4	32
35	Provenance and recycling of detrital zircons from Cenozoic Altiplano strata and the crustal evolution of western South America from combined U-Pb and Lu-Hf isotopic analysis. , 2019, , 363-397.		30
36	Climate-driven environmental change in the Zhada basin, southwestern Tibetan Plateau. , 2010, 6, 74-92.		26

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37	Detrital-Zircon U-Pb Paleodrainage Reconstruction and Geochronology of the Campanian Blackhawkâ€“Castlegate Succession, Wasatch Plateau and Book Cliffs, Utah, U.S.A.. Journal of Sedimentary Research, 2019, 89, 273-292.	1.6	23
38	Peruvian Altiplano Stratigraphy Highlights Alongâ€“Strike Variability in Foreland Basin Evolution of the Cenozoic Central Andes. Tectonics, 2018, 37, 1876-1904.	2.8	20
39	Laramide Orogenesis Driven by Late Cretaceous Weakening of the North American Lithosphere. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019570.	3.4	19
40	Twoâ€“Dimensional Quantitative Comparison of Density Distributions in Detrital Geochronology and Geochemistry. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009559.	2.5	19
41	Provenance Control on Chemical Weathering Index of Fluvioâ€“Lacustrine Sediments: Evidence From the Qaidam Basin, NE Tibetan Plateau. Geochemistry, Geophysics, Geosystems, 2019, 20, 3216-3224.	2.5	17
42	Tectonic and climate controls on Neogene environmental change in the Zhada Basin, southwestern Tibetan Plateau. Geology, 2016, 44, 919-922.	4.4	16
43	Tectonic controls on Late Cretaceous sediment provenance and stratigraphic architecture in the Book Cliffs, Utah. Bulletin of the Geological Society of America, 2018, 130, 1763-1781.	3.3	15
44	Crustal Thickening of the Northern Central Andean Plateau Inferred From Trace Elements in Zircon. Geophysical Research Letters, 2022, 49, .	4.0	14
45	Drainage reorganization and Laramide tectonics in northâ€“central New Mexico and downstream effects in the Gulf of Mexico. Basin Research, 2020, 32, 419-452.	2.7	9
46	Tracking Proterozoicâ€“Triassic sediment routing to western Laurentia via bivariate non-negative matrix factorization of detrital provenance data. Journal of the Geological Society, 2021, 178, .	2.1	6
47	Rapid surface uplift and crustal flow inâ€“the Central Andes (southern Peru) controlled by lithospheric drip dynamics. Scientific Reports, 2022, 12, 5500.	3.3	6
48	Basin evolution in response to flat-slab subduction in the Altiplano. Journal of the Geological Society, 2022, 179, .	2.1	4
49	Megathrust Heterogeneity, Crustal Accretion, and a Topographic Embayment in the Western Nepal Himalaya: Insights From the Inversion of Thermochronological Data. Tectonics, 2022, 41, .	2.8	4
50	Discriminating mechanisms for coarse clastic progradation in the Colombian foreland basin using detrital zircon double dating. , 2019, , 133-171.		3
51	Orbital Forcing of Late Mioceneâ€“Early Pleistocene Environmental Change in the Zhada Basin, SW Tibetan Plateau. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003781.	2.9	3
52	Detrital zircon geochronology and provenance of the Middle to Late Jurassic Paradox Basin and Central Colorado trough: Paleogeographic implications for southwestern Laurentia. , 2021, 17, 1494-1516.		3
53	Effects of contemporaneous orogenesis on sedimentation in the Late Cretaceous Western Interior Basin, northern Utah and southwestern Wyoming. Basin Research, 2022, 34, 366-392.	2.7	3
54	Antiâ€“Phase Strengthening of the South and East Asian Summer Monsoons During the Early Pliocene Driven by Southern Hemisphere Ice Volume. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004211.	2.9	1

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55	UNMIXING DETRITAL ZIRCON U-PB AGE DISTRIBUTIONS. , 2017, , .		1
56	CENTRAL COLORADO TROUGH SEDIMENT SOURCE ISOLATION: PETROCHRONOLOGIC SOURCE DISCRIMINATION APPLIED TO AN ANCESTRAL ROCKY MOUNTAIN BASIN. , 2019, , .		1
57	HINTERLAND BASIN GEODYNAMICS: IMPLICATIONS OF LU-HF AND U-PB ANALYSES OF ZIRCON FROM THE TINCOPALCA BASIN, PERU. , 2020, , .		1
58	LARAMIDE-DRIVEN EROSION, INTERMONTANE BASIN FILL, AND DRAINAGE REORGANIZATION IN NORTH-CENTRAL NEW MEXICO. , 2017, , .		0
59	THE TECTONIC EVOLUTION OF THE CENTRAL ANDEAN PLATEAU AND GEODYNAMIC IMPLICATIONS FOR THE GROWTH OF PLATEAUS. , 2017, , .		0
60	HETEROGENEITY IN THE UNCOMPAGRE UPLIFT REFLECTED IN PROXIMAL-DISTAL SEDIMENT MIXING IN THE PARADOX BASIN. , 2017, , .		0
61	Introduction to the special issue "Tibetan tectonics and its effect on the long-term evolution of climate, vegetation and environment" Terra Nova, 0, , .	2.1	0