Juergen Schieber

List of Publications by Year
in descending order

65 papers	6,443 citations	94269 37 h-index	123241 61 g-index
66 all docs	66 docs citations	66 times ranked	4974 citing authors

#	Article	IF	Citations
1	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
2	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
3	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
4	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
5	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
6	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
7	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
8	Accretion of Mudstone Beds from Migrating Floccule Ripples. Science, 2007, 318, 1760-1763.	6.0	308
9	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
10	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
11	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
12	Curiosityâ€™s Mars Hand Lens Imager (MAHLI) Investigation. Space Science Reviews, 2012, 170, 259-317.	3.7	185
13	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the <i>Curiosity</i> rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250.	3.3	172
14	Bedload transport of mud by floccule ripplesâ€"Direct observation of ripple migration processes and their implications. Geology, 2009, 37, 483-486.	2.0	158
15	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
16	Combined SEM and reflected light petrography of organic matter in the New Albany Shale (Devonian-Mississippian) in the Illinois Basin: A perspective on organic pore development with thermal maturation. International Journal of Coal Geology, 2017, 184, 57-72.	1.9	122
17	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. Earth and Space Science, 2017, 4, 506-539.	1.1	117
18	Reverse engineering mother nature â€" Shale sedimentology from an experimental perspective. Sedimentary Geology, 2011, 238, 1-22.	1.0	105

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19	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
20	On the origin of silt laminae in laminated shales. Sedimentary Geology, 2017, 360, 22-34.	1.0	102
21	Mud re-distribution in epicontinental basins â€" Exploring likely processes. Marine and Petroleum Geology, 2016, 71, 119-133.	1.5	97
22	Lithologically Controlled Subsurface Critical Zone Thickness and Water Storage Capacity Determine Regional Plant Community Composition. Water Resources Research, 2019, 55, 3028-3055.	1.7	97
23	The Microbial Ferrous Wheel in a Neutral pH Groundwater Seep. Frontiers in Microbiology, 2012, 3, 172.	1.5	90
24	Depositional History of the Chhattisgarh Basin, Central India: Constraints from New SHRIMP Zircon Ages. Journal of Geology, 2011, 119, 33-50.	0.7	83
25	Molecular evidence of Late Archean archaea and the presence of a subsurface hydrothermal biosphere. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14260-14265.	3.3	70
26	Varves in marine sediments: A review. Earth-Science Reviews, 2016, 159, 215-246.	4.0	69
27	Discovery of agglutinated benthic foraminifera in Devonian black shales and their relevance for the redox state of ancient seas. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 271, 292-300.	1.0	63
28	Organic matter content and type variation in the sequence stratigraphic context of the Upper Devonian New Albany Shale, Illinois Basin. Sedimentary Geology, 2019, 383, 101-120.	1.0	61
29	New U-Pb SHRIMP Zircon Ages of the Dhamda Tuff in the Mesoproterozoic Chhattisgarh Basin, Peninsular India: Stratigraphic Implications and Significance of a 1-Ga Thermal-Magmatic Event. Journal of Geology, 2011, 119, 535-548.	0.7	59
30	Shaler: <i>inÂsitu</i> analysis of a fluvial sedimentary deposit on Mars. Sedimentology, 2018, 65, 96-122.	1.6	59
31	Sedimentary Facies and Depositional Environment of the Middle Devonian Geneseo Formation of New York, U.S.A.. Journal of Sedimentary Research, 2015, 85, 1393-1415.	0.8	54
32	ChemCam results from the Shaler outcrop in Gale crater, Mars. Icarus, 2015, 249, 2-21.	1.1	52
33	Encounters with an unearthly mudstone: Understanding the first mudstone found on Mars. Sedimentology, 2017, 64, 311-358.	1.6	48
34	Evaluating alongâ€strike variation using thinâ€bedded facies analysis, Upper Cretaceous Ferron Notom Delta, Utah. Sedimentology, 2015, 62, 2060-2089.	1.6	47
35	Detailed facies analysis of the Upper Cretaceous Tununk Shale Member, Henry Mountains Region, Utah: Implications for mudstone depositional models in epicontinental seas. Sedimentary Geology, 2018, 364, 141-159.	1.0	46
36	U-Pb Age and Hf Isotopic Compositions of Magmatic Zircons from a Rhyolite Flow in the Porcellanite Formation in the Vindhyan Supergroup, Son Valley (India): Implications for Its Tectonic Significance. Journal of Geology, 2017, 125, 367-379.	0.7	43

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37	Stratigraphic position of the âˆ¼1000Ma Sukhda Tuff (Chhattisgarh Supergroup, India) and the 500Ma question. Precambrian Research, 2008, 167, 383-388.	1.2	40
38	Oxidation of detrital pyrite as a cause for Marcasite Formation in marine lag deposits from the Devonian of the eastern US. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 1312-1326.	0.6	37
39	Experimental testing of the transport-durability of shale lithics and its implications for interpreting the rock record. Sedimentary Geology, 2016, 331, 162-169.	1.0	36
40	Implications of a Newly Dated ca. 1000-Ma Rhyolitic Tuff in the Indravati Basin, Bastar Craton, India. Journal of Geology, 2012, 120, 477-485.	0.7	35
41	Shallow-water onlap model for the deposition of Devonian black shales in New York, USA. Geology, 2019, 47, 279-283.	2.0	35
42	Regional depositional changes and their controls on carbon and sulfur cycling across the Ordovician-Silurian boundary, northwestern Guizhou, South China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 485, 816-832.	1.0	29
43	On the origin of a phosphate enriched interval in the Chattanooga Shale (Upper Devonian) of Tennesseeâ€"A combined sedimentologic, petrographic, and geochemical study. Sedimentary Geology, 2015, 329, 40-61.	1.0	25
44	Fate of terrigenous organic carbon in muddy clinothems on continental shelves revealed by stratal geometries: Insight from the Adriatic sedimentary archive. Global and Planetary Change, 2021, 203, 103539.	1.6	25
45	An SEM Study of Porosity in the Eagle Ford Shale of Texasâ€"Pore Types and Porosity Distribution in a Depositional and Sequence-stratigraphic Context. , 0, , 167-186.		24
46	SEM Observations on Ion-milled Samples of Devonian Black Shales from Indiana and New York<subtitle>The Petrographic Context of Multiple Pore Types</subtitle>. , 2013, , .		23
47	Association of uranium with macerals in marine black shales: Insights from the Upper Devonian New Albany Shale, Illinois Basin. International Journal of Coal Geology, 2020, 217, 103351.	1.9	20
48	Distribution of primary and secondary features in the Pahrump Hills outcrop (Gale crater, Mars) as seen in a Mars Descent Imager (MARDI) â€œsidewalkâ€•mosaic. Icarus, 2019, 328, 194-209.	1.1	19
49	Application of sequence stratigraphic concepts to the Upper Cretaceous Tununk Shale Member of the Mancos Shale Formation, southâ€central Utah: Parasequence styles in shelfal mudstone strata. Sedimentology, 2020, 67, 118-151.	1.6	16
50	Composite Particles in Mudstones: Examples from the Late Cretaceous Tununk Shale Member of the Mancos Shale Formation. Journal of Sedimentary Research, 2018, 88, 1319-1344.	0.8	15
51	When a mudstone was actually a â€œsandâ€• Results of a sedimentological investigation of the bituminous marl formation (Oligocene), Eastern Carpathians of Romania. Sedimentary Geology, 2019, 384, 12-28.	1.0	13
52	Transient atmospheric effects of the landing of the Mars Science Laboratory rover: The emission and dissipation of dust and carbazic acid. Advances in Space Research, 2016, 58, 1066-1092.	1.2	12
53	Burrows without a traceâ€"How meioturbation affects rock fabrics and leaves a record of meiobenthos activity in shales and mudstones. Palaontologische Zeitschrift, 2021, 95, 767-791.	0.8	11
54	Decoding the origins and sources of clay minerals in the Upper Cretaceous Tununk Shale of southâ€central Utah: Implications for the pursuit of climate and burial histories. Depositional Record, 2020, 6, 172-191.	0.8	10

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55	On the origin and significance of composite particles in mudstones: Examples from the Cenomanian Dunvegan Formation. Sedimentology, 2021, 68, 737-754.	1.6	10
56	Engraved on the rocksâ€"Aeolian abrasion of Martian mudstone exposures and their relationship to modern wind patterns in Gale Crater, Mars. Depositional Record, 2020, 6, 625-647.	0.8	9
57	Cryptic burrow traces in black shales â€" a petrographic Rorschach test or the real thing?. Sedimentology, 2021, 68, 2707-2731.	1.6	7
58	Detecting detrital carbonate in shale successions - Relevance for evaluation of depositional setting and sequence stratigraphic interpretation. Marine and Petroleum Geology, 2021, 130, 105130.	1.5	7
59	Mars is a mirror â€" Understanding the Pahrump Hills mudstones from a perspective of Earth analogues. Sedimentology, 2022, 69, 2371-2435.	1.6	7
60	The discovery of widespread agrichnia traces in Devonian black shales of North America: another chapter in the evolving understanding of a â€œnot so anoxicâ€•ancient sea. Palaontologische Zeitschrift, 2021, 95, 661.	0.8	6
61	Discussion: â€œMud dispersal across a Cretaceous prodelta: Stormâ€generated, waveâ€enhanced sediment gravity flows inferred from mudstone microtexture and microfaciesâ€•by Plint (), Sedimentology 61, 609â€"647. Sedimentology, 2015, 62, 389-393.	1.6	4
62	Sequence stratigraphic reconstruction of the late Middle Devonian Geneseo Formation of NY, USA: Developing a genetic model for â€œUpper Devonianâ€•unconventional targets in the Northern Appalachian Basin. Marine and Petroleum Geology, 2022, 138, 105547.	1.5	2
63	Correlative conformity or subtle unconformity? The distal expression of a sequence boundary in the Upper Cretaceous Mancos Shale, Henry Mountains Region, Utah, U.S.A.. Journal of Sedimentary Research, 2022, 92, 635-657.	0.8	2
64	The â€œLower Kaimur Porcellaniteâ€•(Vindhyan Supergroup) is of Sedimentary Origin and not Tuff. Journal of the Geological Society of India, 2020, 95, 17-24.	0.5	0
65	Reply to the Discussion by Alâ€Mufti on â€œOn the origin and significance of composite particles in mudstones: Examples from the Cenomanian Dunvegan Formationâ€•by Li <i>et al</i> . (2021), Sedimentology, 68, 737â€"754. Sedimentology, 0, , .	1.6	0