

# Jacob A Covault

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

3,812  
citations

147801

31  
h-index

233421

45  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental signal propagation in sedimentary systems across timescales. <i>Earth-Science Reviews</i> , 2016, 153, 7-29.	9.1	391
2	Architecture of turbidite channel systems on the continental slope: Patterns and predictions. <i>Marine and Petroleum Geology</i> , 2011, 28, 728-743.	3.3	276
3	Submarine fans at all sea-level stands: Tectono-morphologic and climatic controls on terrigenous sediment delivery to the deep sea. <i>Geology</i> , 2010, 38, 939-942.	4.4	237
4	Highstand fans in the California borderland: The overlooked deep-water depositional systems. <i>Geology</i> , 2007, 35, 783.	4.4	222
5	Intrinsic controls on the range of volumes, morphologies, and dimensions of submarine lobes. <i>Sedimentary Geology</i> , 2010, 232, 66-76.	2.1	160
6	Key Future Directions For Research On Turbidity Currents and Their Deposits. <i>Journal of Sedimentary Research</i> , 2015, 85, 153-169.	1.6	153
7	Origins of large crescent-shaped bedforms within the axial channel of Monterey Canyon, offshore California. , 2010, 6, 755-774.		135
8	The Influence of Mass-Transport-Deposit Surface Topography on the Evolution of Turbidite Architecture: The Sierra Contreras, Tres Pasos Formation (Cretaceous), Southern Chile. <i>Journal of Sedimentary Research</i> , 2009, 79, 287-301.	1.6	129
9	Submarine channel initiation, filling and maintenance from seaâ€floor geomorphology and morphodynamic modelling of cyclic steps. <i>Sedimentology</i> , 2014, 61, 1031-1054.	3.1	121
10	Erosion at inception of deep-sea channels. <i>Marine and Petroleum Geology</i> , 2013, 41, 48-61.	3.3	118
11	Evolution of deep-water stratigraphic architecture, Magallanes Basin, Chile. <i>Marine and Petroleum Geology</i> , 2011, 28, 612-628.	3.3	117
12	High curvatures drive river meandering. <i>Geology</i> , 2019, 47, 263-266.	4.4	110
13	Sediment transfer and deposition in slope channels: Deciphering the record of enigmatic deep-sea processes from outcrop. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 857-871.	3.3	107
14	High-Relief Slope Cliniform Development: Insights from Outcrop, Magallanes Basin, Chile. <i>Journal of Sedimentary Research</i> , 2010, 80, 357-375.	1.6	105
15	Coarse-grained sediment delivery and distribution in the Holocene Santa Monica Basin, California: Implications for evaluating source-to-sink flux at millennial time scales. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 1394-1408.	3.3	101
16	Terrestrial source to deep-sea sink sediment budgets at high and low sea levels: Insights from tectonically active Southern California. <i>Geology</i> , 2011, 39, 619-622.	4.4	101
17	Cyclic steps and related supercritical bedforms: Building blocks of deep-water depositional systems, western North America. <i>Marine Geology</i> , 2017, 393, 4-20.	2.1	97
18	Rapid Climatic Signal Propagation from Source to Sink in a Southern California Sedimentâ€Routing System. <i>Journal of Geology</i> , 2010, 118, 247-259.	1.4	88

#	ARTICLE	IF	CITATIONS
19	Does the Great Valley Group contain Jurassic strata? Reevaluation of the age and early evolution of a classic forearc basin. <i>Geology</i> , 2006, 34, 21.	4.4	86
20	Importance of predecessor basin history on sedimentary fill of a retroarc foreland basin: provenance analysis of the Cretaceous Magallanes basin, Chile (50°S–52°S). <i>Basin Research</i> , 2010, 22, 640-658.	2.7	79
21	Early Cenozoic drainage reorganization of the United States Western Interior–Gulf of Mexico sediment routing system. <i>Geology</i> , 2017, 45, 187-190.	4.4	68
22	Continental weathering coupled to Paleogene climate changes in North America. <i>Geology</i> , 2017, 45, 911-914.	4.4	58
23	Outcrop Expression of a Continental-Margin-Scale Shelf-Edge Delta from the Cretaceous Magallanes Basin, Chile. <i>Journal of Sedimentary Research</i> , 2009, 79, 523-539.	1.6	52
24	Quantifying sediment supply to continental margins: Application to the Paleogene Wilcox Group, Gulf of Mexico. <i>AAPG Bulletin</i> , 2018, 102, 1685-1702.	1.5	49
25	The Stratigraphic Record of Submarine-Channel Evolution. <i>The Sedimentary Record</i> , 2016, 14, 4-11.	0.6	48
26	Stratigraphic rule-based reservoir modeling. <i>Bulletin of Canadian Petroleum Geology</i> , 2015, 63, 287-303.	0.3	46
27	Three-Dimensional Numerical Modeling of Eustatic Control On Continental-Margin Sand Distribution. <i>Journal of Sedimentary Research</i> , 2016, 86, 1434-1443.	1.6	46
28	Growth patterns of deep-sea fans revisited: Turbidite-system morphology in confined basins, examples from the California Borderland. <i>Marine Geology</i> , 2009, 265, 51-66.	2.1	44
29	Turbidite-reservoir architecture in complex foredeep-margin and wedge-top depocenters, Tertiary Molasse foreland basin system, Austria. <i>Marine and Petroleum Geology</i> , 2009, 26, 379-396.	3.3	38
30	Late Cenozoic cooling favored glacial over tectonic controls on sediment supply to the western Gulf of Mexico. <i>Geology</i> , 2018, 46, 995-998.	4.4	37
31	Submarine canyon and fan systems of the California Continental Borderland. , 2009, , .		36
32	Sediment routing evolution in the North Alpine Foreland Basin, Austria: interplay of transverse and longitudinal sediment dispersal. <i>Basin Research</i> , 2018, 30, 426-447.	2.7	34
33	Development of cutoff-related knickpoints during early evolution of submarine channels. <i>Geology</i> , 2016, 44, 835-838.	4.4	33
34	Deep-Water Channel Run-Out Length: Insights from Seafloor Geomorphology. <i>Journal of Sedimentary Research</i> , 2012, 82, 21-36.	1.6	32
35	Slope-fan depositional architecture from high-resolution forward stratigraphic models. <i>Marine and Petroleum Geology</i> , 2018, 91, 576-585.	3.3	28
36	Muddy sand and sandy mud on the distal Mississippi fan: Implications for lobe depositional processes. , 2018, 14, 1051-1066.		28

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37	Conversion of tectonic and climatic forcings into records of sediment supply and provenance. <i>Scientific Reports</i> , 2019, 9, 4115.	3.3	25
38	The stratigraphic evolution of a submarine channel: linking seafloor dynamics to depositional products. <i>Journal of Sedimentary Research</i> , 2020, 90, 673-686.	1.6	21
39	Volume and recurrence of submarine building turbidity currents. <i>Depositional Record</i> , 2018, 4, 160-176.	1.7	20
40	Chapter 23 Continental shelves as sediment capacitors or conveyors: source-to-sink insights from the tectonically active Oceanside shelf, southern California, USA. <i>Geological Society Memoir</i> , 2014, 41, 315-326.	1.7	19
41	Submarine channels "swept"™ downstream after bend cutoff in salt basins. <i>Depositional Record</i> , 2020, 6, 259-272.	1.7	16
42	Orogen proximal sedimentation in the Permian foreland basin. , 2020, 16, 567-593.		16
43	Numerical modeling of icehouse and greenhouse sea-level changes on a continental margin: Sea-level modulation of deltaic avulsion processes. <i>Marine and Petroleum Geology</i> , 2020, 111, 807-814.	3.3	15
44	High curvatures drive river meandering: REPLY. <i>Geology</i> , 2019, 47, e486-e486.	4.4	13
45	Exploring a new breadth of cyclic steps on distal submarine fans. <i>Sedimentology</i> , 2021, 68, 1378-1399.	3.1	13
46	How do basin margins record long-term tectonic and climatic changes?. <i>Geology</i> , 2020, 48, 893-897.	4.4	12
47	Giant meandering channel evolution, Campos deep-water salt basin, Brazil. , 2021, 17, 1869-1889.		8
48	Grain-Size and Discharge Controls on Submarine-Fan Depositional Patterns From Forward Stratigraphic Models. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	7
49	Inherited Depositional Topography Control on Shelf-Margin Oversteepening, Readjustment, and Coarse-Grained Sediment Delivery to Deep Water, Magallanes Basin, Chile. <i>Frontiers in Earth Science</i> , 2020, 7, .	1.8	7
50	Channel trajectories control deep-water stratigraphic architecture. <i>Depositional Record</i> , 2022, 8, 880-894.	1.7	5
51	Local-to-distant provenance cyclicity of the southern Front Range, central Colorado: Insights from detrital zircon geochronology. , 2018, , .		2
52	Tectonic influence on axial-transverse sediment routing in the Denver Basin. , 2022, , .		2
53	Tectonostratigraphic Evolution of the Inner California Borderland: Template for Fill-and-Spill Sedimentation. , 2019, , 511-528.		1
54	Highstand fans in the California borderland: COMMENT and REPLY: REPLY. <i>Geology</i> , 2008, 36, e167-e167.	4.4	0