Jaroslaw Stolarski

List of Publications by Year in descending order

85 papers	2,716 citations	159525 30 h-index	214721 47 g-index
91 all docs	91 docs citations	91 times ranked	2568 citing authors

#	Article	IF	Citations
1	A Comprehensive Phylogenetic Analysis of the Scleractinia (Cnidaria, Anthozoa) Based on Mitochondrial CO1 Sequence Data. PLoS ONE, 2010, 5, e11490.	1.1	213
2	The ancient evolutionary origins of Scleractinia revealed by azooxanthellate corals. BMC Evolutionary Biology, 2011, 11, 316.	3.2	153
3	Merging scleractinian genera: the overwhelming genetic similarity between solitary Desmophyllum and colonial Lophelia. BMC Evolutionary Biology, 2016, 16, 108.	3.2	126
4	Fossil corals as an archive of secular variations in seawater chemistry since the Mesozoic. Geochimica Et Cosmochimica Acta, 2015, 160, 188-208.	1.6	87
5	Debating phylogenetic relationships of the scleractinian Psammocora: molecular and morphological evidences. Contributions To Zoology, 2007, 76, 35-54.	0.2	84
6	A Cretaceous Scleractinian Coral with a Calcitic Skeleton. Science, 2007, 318, 92-94.	6.0	78
7	Searching for new morphological characters in the systematics of scleractinian reef corals: comparison of septal teeth and granules between Atlantic and Pacific Mussidae. Acta Zoologica, 2009, 90, 142-165.	0.6	76
8	Factors controlling growth of modern tufa: results of a field experiment. Geological Society Special Publication, 2010, 336, 143-191.	0.8	72
9	A phylogeny reconstruction of the Dendrophylliidae (Cnidaria, Scleractinia) based on molecular and micromorphological criteria, and its ecological implications. Zoologica Scripta, 2014, 43, 661-688.	0.7	65
10	Photosymbiosis and the expansion of shallow-water corals. Science Advances, 2016, 2, e1601122.	4.7	65
11	Corallite wall and septal microstructure in scleractinian reef corals: Comparison of molecular clades within the family Faviidae. Journal of Morphology, 2011, 272, 66-88.	0.6	64
12	How corals made rocks through the ages. Global Change Biology, 2020, 26, 31-53.	4.2	60
13	Study of the crystallographic architecture of corals at the nanoscale by scanning transmission X-ray microscopy and transmission electron microscopy. Ultramicroscopy, 2011, 111, 1268-1275.	0.8	59
14	Systematics of the coral genus Craterastrea (Cnidaria, Anthozoa, Scleractinia) and description of a new family through combined morphological and molecular analyses. Systematics and Biodiversity, 2012, 10, 417-433.	0.5	56
15	TOWARDS A NEW SYNTHESIS OF EVOLUTIONARY RELATIONSHIPS AND CLASSIFICATION OF SCLERACTINIA. Journal of Paleontology, 2001, 75, 1090-1108.	0.5	54
16	Hierarchically structured scleractinian coral biocrystals. Journal of Structural Biology, 2008, 161, 74-82.	1.3	54
17	Resolving structure and function of metaorganisms through a holistic framework combining reductionist and integrative approaches. Zoology, 2019, 133, 81-87.	0.6	53
18	Skeletal growth dynamics linked to trace-element composition in the scleractinian coral Pocillopora damicornis. Geochimica Et Cosmochimica Acta, 2012, 99, 146-158.	1.6	50

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19	Skeletal growth, ultrastructure and composition of the azooxanthellate scleractinian coral Balanophyllia regia. Coral Reefs, 2010, 29, 175-189.	0.9	46
20	Mediterranean Corals Through Time: From Miocene to Present. , 2014, , 257-274.		40
21	Strontiumâ€86 labeling experiments show spatially heterogeneous skeletal formation in the scleractinian coral Porites porites. Geophysical Research Letters, 2009, 36, .	1.5	38
22	Nanotextures of aragonite in stromatolites from the quasi-marine Satonda crater lake, Indonesia. Geological Society Special Publication, 2010, 336, 211-224.	0.8	37
23	A Cenozoic record of seawater Mg isotopes in well-preserved fossil corals. Geology, 2017, 45, 1039-1042.	2.0	36
24	High-resolution synchrotron radiation studies on natural and thermally annealed scleractinian coral biominerals. Journal of Applied Crystallography, 2007, 40, 2-9.	1.9	35
25	A unique skeletal microstructure of the deepâ€sea micrabaciid scleractinian corals. Journal of Morphology, 2011, 272, 191-203.	0.6	35
26	Influence of open ocean nitrogen supply on the skeletal Î´15N of modern shallow-water scleractinian corals. Earth and Planetary Science Letters, 2016, 441, 125-132.	1.8	34
27	Impact of ocean acidification on crystallographic vital effect of the coral skeleton. Nature Communications, 2019, 10, 2896.	5.8	34
28	26Mg labeling of the sea urchin regenerating spine: Insights into echinoderm biomineralization process. Journal of Structural Biology, 2011, 176, 119-126.	1.3	33
29	Taxonomic classification of the reef coral family Lobophylliidae (Cnidaria: Anthozoa: Scleractinia). Zoological Journal of the Linnean Society, 2016, 178, 436-481.	1.0	33
30	Pulsed 86Sr-labeling and NanoSIMS imaging to study coral biomineralization at ultra-structural length scales. Coral Reefs, 2012, 31, 741-752.	0.9	32
31	The first modern solitary Agariciidae (Anthozoa, Scleractinia) revealed by molecular and microstructural analysis. Invertebrate Systematics, 2012, 26, 303.	0.5	30
32	Photopolymerized Polypyrrole Microvessels. Chemistry - A European Journal, 2012, 18, 310-320.	1.7	30
33	Microâ€to nanostructure and geochemistry of extant crinoidal echinoderm skeletons. Geobiology, 2013, 11, 29-43.	1.1	29
34	Origin and phylogeny of Guyniidae (Scleractinia) in the light of microstructural data. Lethaia, 2000, 33, 13-38.	0.6	28
35	Calcium isotopes in scleractinian fossil corals since the Mesozoic: Implications for vital effects and biomineralization through time. Earth and Planetary Science Letters, 2016, 444, 205-214.	1.8	28
36	Biomineralization in newly settled recruits of the scleractinian coral Pocillopora damicornis. Journal of Morphology, 2014, 275, 1349-1365.	0.6	27

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37	From pristine aragonite to blocky calcite: Exceptional preservation and diagenesis of cephalopod nacre in porous Cretaceous limestones. PLoS ONE, 2018, 13, e0208598.	1.1	27
38	Molecular and skeletal fingerprints of scleractinian coral biomineralization: From the sea surface to mesophotic depths. Acta Biomaterialia, 2021, 120, 263-276.	4.1	27
39	DIAGENETIC ALTERATION OF TRIASSIC CORAL FROM THE ARAGONITE KONSERVAT-LAGERSTATTE IN ALAKIR CAY, TURKEY: IMPLICATIONS FOR GEOCHEMICAL MEASUREMENTS. Palaios, 2013, 28, 333-342.	0.6	25
40	Uncovering hidden coral diversity: a new cryptic lobophylliid scleractinian from the Indian Ocean. Cladistics, 2019, 35, 301-328.	1.5	25
41	Fine-Scale Skeletal Banding Can Distinguish Symbiotic from Asymbiotic Species among Modern and Fossil Scleractinian Corals. PLoS ONE, 2016, 11, e0147066.	1.1	25
42	A modern scleractinian coral with a two-component calciteâ€“aragonite skeleton. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
43	Nanostructural and Geochemical Features of the Jurassic Isocrinid Columnal Ossicles. Acta Palaeontologica Polonica, 2009, 54, 69-75.	0.4	22
44	Simultaneous extension of both basic microstructural components in scleractinian coral skeleton during night and daytime, visualized by in situ 86Sr pulse labeling. Journal of Structural Biology, 2014, 185, 79-88.	1.3	21
45	Diagenesis of echinoderm skeletons: Constraints on paleoseawater Mg/Ca reconstructions. Global and Planetary Change, 2016, 144, 142-157.	1.6	20
46	Lattice Shrinkage by Incorporation of Recombinant Starmakerâ€Like Protein within Bioinspired Calcium Carbonate Crystals. Chemistry - A European Journal, 2019, 25, 12740-12750.	1.7	20
47	A unique coral biomineralization pattern has resisted 40 million years of major ocean chemistry change. Scientific Reports, 2016, 6, 27579.	1.6	18
48	Calcareous sponge biomineralization: Ultrastructural and compositional heterogeneity of spicules in Leuconia johnstoni. Journal of Structural Biology, 2011, 173, 99-109.	1.3	17
49	Magnetic-Nanoparticle-Decorated Polypyrrole Microvessels: Toward Encapsulation of mRNA Cap Analogues. Biomacromolecules, 2013, 14, 1867-1876.	2.6	17
50	Pyrene-Loaded Polypyrrole Microvessels. Langmuir, 2011, 27, 12720-12729.	1.6	16
51	Aragonitic scleractinian corals in the Cretaceous calcitic sea. Geology, 2017, 45, 319-322.	2.0	16
52	The earliest diverging extant scleractinian corals recovered by mitochondrial genomes. Scientific Reports, 2020, 10, 20714.	1.6	16
53	Towards a new synthesis of evolutionary relationships and classification of Scleractinia. Journal of Paleontology, 2001, 75, 1090-1108.	0.5	15
54	Bromide-doped polypyrrole microcapsules modified with gold nanoparticles. Polymer, 2012, 53, 5320-5329.	1.8	15

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55	Deltocyathiidae, an earlyâ€diverging family of Robust corals (Anthozoa, Scleractinia). Zoologica Scripta, 2013, 42, 201-212.	0.7	15
56	Ultrascale and microscale growth dynamics of the cidaroid spine of Phyllacanthus imperialis revealed by ²⁶Mg labeling and NanoSIMS isotopic imaging. Journal of Morphology, 2014, 275, 788-796.	0.6	15
57	TRIASSIC ROOTS OF THE AMPHIASTRAEID SCLERACTINIAN CORALS. Journal of Paleontology, 2001, 75, 34-45.	0.5	14
58	Speciation of Mg in biogenic calcium carbonates. Journal of Physics: Conference Series, 2009, 190, 012175.	0.3	14
59	Toluene-Filled Polypyrrole Microvessels: Entrapment and Dynamics of Encapsulated Perylene. Journal of Physical Chemistry B, 2010, 114, 14890-14896.	1.2	13
60	Stable carbon and oxygen isotope compositions of extant crinoidal echinoderm skeletons. Chemical Geology, 2012, 291, 132-140.	1.4	13
61	Evidence for Rhythmicity Pacemaker in the Calcification Process of Scleractinian Coral. Scientific Reports, 2016, 6, 20191.	1.6	13
62	A Cenozoic record of seawater uranium in fossil corals. Geochimica Et Cosmochimica Acta, 2019, 250, 173-190.	1.6	13
63	Polypyrrole microcapsules loaded with gold nanoparticles: Perspectives for biomedical imaging. Synthetic Metals, 2019, 248, 27-34.	2.1	13
64	First Mesozoic record of the scleractinian Madrepora from the Maastrichtian siliceous limestones of Poland. Facies, 2007, 53, 67-78.	0.7	12
65	Sea urchin growth dynamics at microstructural length scale revealed by Mn-labeling and cathodoluminescence imaging. Frontiers in Zoology, 2017, 14, 42.	0.9	11
66	Fish Otolith Matrix Macromolecule-64 (OMM-64) and Its Role in Calcium Carbonate Biomineralization. Crystal Growth and Design, 2020, 20, 5808-5819.	1.4	11
67	Physiological and Transcriptomic Variability Indicative of Differences in Key Functions Within a Single Coral Colony. Frontiers in Marine Science, 2021, 8, .	1.2	10
68	Effects of seawater chemistry (Mg2+/Ca2+ ratio) and diet on the skeletal Mg/Ca ratio in the common sea urchin Paracentrotus lividus. Marine Environmental Research, 2019, 145, 22-26.	1.1	9
69	Effects of seawater Mg²⁺/Ca²⁺ ratio and diet on the biomineralization and growth of sea urchins and the relevance of fossil echinoderms to paleoenvironmental reconstructions. Geobiology, 2020, 18, 710-724.	1.1	9
70	Fast and pervasive diagenetic isotope exchange in foraminifera tests is species-dependent. Nature Communications, 2022, 13, 113.	5.8	9
71	Caryophylliids (Anthozoa, Scleractinia) and mitochondrial gene order: Insights from mitochondrial and nuclear phylogenomics. Molecular Phylogenetics and Evolution, 2022, 175, 107565.	1.2	9
72	Skeletal ontogeny in basal scleractinian micrabaciid corals. Journal of Morphology, 2013, 274, 243-257.	0.6	8

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73	Microstructural disparity between basal micrabaciids and other Scleractinia: new evidence from Neogene Stephanophyllia. Lethaia, 2015, 48, 417-428.	0.6	8
74	Macroporous microspheres and microspheroidal particles from polyhydromethylsiloxane. Colloid and Polymer Science, 2017, 295, 939-944.	1.0	8
75	Impact of seawater Mg2+/Ca2+ on Mg/Ca of asterozoan skeleton â€“ Evidence from culturing and the fossil record. Chemical Geology, 2021, 584, 120557.	1.4	7
76	Simultaneous extension of both basic microstructural components in scleractinian coral skeleton during night and daytime, visualized by in situ 86Sr pulse labeling. Journal of Structural Biology, 2014, 185, 79-88.	1.3	7
77	Gold-decorated polymer vessel structures as carriers of mRNA cap analogs. Polymer, 2015, 57, 77-87.	1.8	6
78	Phylogeography of recent Plesiastrea (Scleractinia: Plesiastreidae) based on an integrated taxonomic approach. Molecular Phylogenetics and Evolution, 2022, 172, 107469.	1.2	6
79	Molecular techniques and their limitations shape our view of the holobiont. Zoology, 2019, 137, 125695.	0.6	5
80	Two Rare Pustulose/spinose Morphotypes of Benthic Foraminifera from Eastern Ross Sea, Antarctica. Journal of Foraminiferal Research, 2019, 49, 405-422.	0.1	5
81	Triassic roots of the amphiastraeid scleractinian corals. Journal of Paleontology, 2001, 75, 34-45.	0.5	4
82	Photosymbiosis in Late Triassic scleractinian corals from the Italian Dolomites. PeerJ, 2021, 9, e11062.	0.9	3
83	Morphology, microstructure, crystallography, and chemistry of distinct CaCO3deposits formed by early recruits of the scleractinian coralPocillopora damicornis. Journal of Morphology, 2015, 276, 1146-1156.	0.6	2
84	Conopora (Stylasteridae, Hydrozoa) from the Eocene of Seymour Island. Antarctic Science, 1998, 10, 487-492.	0.5	1
85	Molecular and Skeletal Fingerprints of Scleractinian Coral Biomineralization from the Sea Surface to Mesophotic Depths. SSRN Electronic Journal, 0, , .	0.4	0