

# Jaroslav Stolarski

## List of Publications by Year in descending order

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85  
papers

2,716  
citations

159585

30  
h-index

214800

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.	2.5	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 <i>Desmophyllum</i> and colonial <i>Lophelia</i> . 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.	3.9	87
5	Debating phylogenetic relationships of the scleractinian <i>Psammocora</i> : molecular and morphological evidences. Contributions To Zoology, 2007, 76, 35-54.	0.5	84
6	A Cretaceous Scleractinian Coral with a Calcitic Skeleton. Science, 2007, 318, 92-94.	12.6	78
7	Searching for new morphological characters in the systematics of scleractinian reef corals: comparison of septal teeth and granules between Atlantic and Pacific <i>Mussidae</i> . Acta Zoologica, 2009, 90, 142-165.	0.8	76
8	Factors controlling growth of modern tufa: results of a field experiment. Geological Society Special Publication, 2010, 336, 143-191.	1.3	72
9	A phylogeny reconstruction of the <i>Dendrophylliidae</i> (Cnidaria, Scleractinia) based on molecular and micromorphological criteria, and its ecological implications. Zoologica Scripta, 2014, 43, 661-688.	1.7	65
10	Photosymbiosis and the expansion of shallow-water corals. Science Advances, 2016, 2, e1601122.	10.3	65
11	Corallite wall and septal microstructure in scleractinian reef corals: Comparison of molecular clades within the family <i>Faviidae</i> . Journal of Morphology, 2011, 272, 66-88.	1.2	64
12	How corals made rocks through the ages. Global Change Biology, 2020, 26, 31-53.	9.5	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.	1.9	59
14	Systematics of the coral genus <i>Craterastrea</i> (Cnidaria, Anthozoa, Scleractinia) and description of a new family through combined morphological and molecular analyses. Systematics and Biodiversity, 2012, 10, 417-433.	1.2	56
15	TOWARDS A NEW SYNTHESIS OF EVOLUTIONARY RELATIONSHIPS AND CLASSIFICATION OF SCLERACTINIA. Journal of Paleontology, 2001, 75, 1090-1108.	0.8	54
16	Hierarchically structured scleractinian coral biocrystals. Journal of Structural Biology, 2008, 161, 74-82.	2.8	54
17	Resolving structure and function of metaorganisms through a holistic framework combining reductionist and integrative approaches. Zoology, 2019, 133, 81-87.	1.2	53
18	Skeletal growth dynamics linked to trace-element composition in the scleractinian coral <i>Pocillopora damicornis</i> . Geochimica Et Cosmochimica Acta, 2012, 99, 146-158.	3.9	50

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19	Skeletal growth, ultrastructure and composition of the azooxanthellate scleractinian coral <i>Balanophyllia regia</i> . <i>Coral Reefs</i> , 2010, 29, 175-189.	2.2	46
20	Mediterranean Corals Through Time: From Miocene to Present. , 2014, , 257-274.		40
21	Strontium <sup>86</sup> labeling experiments show spatially heterogeneous skeletal formation in the scleractinian coral <i>Porites porites</i> . <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	38
22	Nanotextures of aragonite in stromatolites from the quasi-marine Satonda crater lake, Indonesia. <i>Geological Society Special Publication</i> , 2010, 336, 211-224.	1.3	37
23	A Cenozoic record of seawater Mg isotopes in well-preserved fossil corals. <i>Geology</i> , 2017, 45, 1039-1042.	4.4	36
24	High-resolution synchrotron radiation studies on natural and thermally annealed scleractinian coral biominerals. <i>Journal of Applied Crystallography</i> , 2007, 40, 2-9.	4.5	35
25	A unique skeletal microstructure of the deep-sea micrabaciid scleractinian corals. <i>Journal of Morphology</i> , 2011, 272, 191-203.	1.2	35
26	Influence of open ocean nitrogen supply on the skeletal <sup>15</sup> N of modern shallow-water scleractinian corals. <i>Earth and Planetary Science Letters</i> , 2016, 441, 125-132.	4.4	34
27	Impact of ocean acidification on crystallographic vital effect of the coral skeleton. <i>Nature Communications</i> , 2019, 10, 2896.	12.8	34
28	<sup>26</sup> Mg labeling of the sea urchin regenerating spine: Insights into echinoderm biomineralization process. <i>Journal of Structural Biology</i> , 2011, 176, 119-126.	2.8	33
29	Taxonomic classification of the reef coral family <i>Lobophylliidae</i> (Cnidaria: Anthozoa: Scleractinia). <i>Zoological Journal of the Linnean Society</i> , 2016, 178, 436-481.	2.3	33
30	Pulsed <sup>86</sup> Sr-labeling and NanoSIMS imaging to study coral biomineralization at ultra-structural length scales. <i>Coral Reefs</i> , 2012, 31, 741-752.	2.2	32
31	The first modern solitary <i>Agariciidae</i> (Anthozoa, Scleractinia) revealed by molecular and microstructural analysis. <i>Invertebrate Systematics</i> , 2012, 26, 303.	1.3	30
32	Photopolymerized Polypyrrole Microvessels. <i>Chemistry - A European Journal</i> , 2012, 18, 310-320.	3.3	30
33	Micro- to nanostructure and geochemistry of extant crinoidal echinoderm skeletons. <i>Geobiology</i> , 2013, 11, 29-43.	2.4	29
34	Origin and phylogeny of <i>Guyniidae</i> (Scleractinia) in the light of microstructural data. <i>Lethaia</i> , 2000, 33, 13-38.	1.4	28
35	Calcium isotopes in scleractinian fossil corals since the Mesozoic: Implications for vital effects and biomineralization through time. <i>Earth and Planetary Science Letters</i> , 2016, 444, 205-214.	4.4	28
36	Biomineralization in newly settled recruits of the scleractinian coral <i>Pocillopora damicornis</i> . <i>Journal of Morphology</i> , 2014, 275, 1349-1365.	1.2	27

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37	From pristine aragonite to blocky calcite: Exceptional preservation and diagenesis of cephalopod nacre in porous Cretaceous limestones. <i>PLoS ONE</i> , 2018, 13, e0208598.	2.5	27
38	Molecular and skeletal fingerprints of scleractinian coral biomineralization: From the sea surface to mesophotic depths. <i>Acta Biomaterialia</i> , 2021, 120, 263-276.	8.3	27
39	DIAGENETIC ALTERATION OF TRIASSIC CORAL FROM THE ARAGONITE KONSERVAT-LAGERSTATTE IN ALAKIR CAY, TURKEY: IMPLICATIONS FOR GEOCHEMICAL MEASUREMENTS. <i>Palaios</i> , 2013, 28, 333-342.	1.3	25
40	Uncovering hidden coral diversity: a new cryptic lobophylliid scleractinian from the Indian Ocean. <i>Cladistics</i> , 2019, 35, 301-328.	3.3	25
41	Fine-Scale Skeletal Banding Can Distinguish Symbiotic from Asymbiotic Species among Modern and Fossil Scleractinian Corals. <i>PLoS ONE</i> , 2016, 11, e0147066.	2.5	25
42	A modern scleractinian coral with a two-component calcite- $\epsilon$ -aragonite skeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	22
43	Nanostructural and Geochemical Features of the Jurassic Isocrinid Columnal Ossicles. <i>Acta Palaeontologica Polonica</i> , 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 $^{86}\text{Sr}$ pulse labeling. <i>Journal of Structural Biology</i> , 2014, 185, 79-88.	2.8	21
45	Diagenesis of echinoderm skeletons: Constraints on paleoseawater Mg/Ca reconstructions. <i>Global and Planetary Change</i> , 2016, 144, 142-157.	3.5	20
46	Lattice Shrinkage by Incorporation of Recombinant Starmaker-Like Protein within Bioinspired Calcium Carbonate Crystals. <i>Chemistry - A European Journal</i> , 2019, 25, 12740-12750.	3.3	20
47	A unique coral biomineralization pattern has resisted 40 million years of major ocean chemistry change. <i>Scientific Reports</i> , 2016, 6, 27579.	3.3	18
48	Calcareous sponge biomineralization: Ultrastructural and compositional heterogeneity of spicules in <i>Leuconia johnstoni</i> . <i>Journal of Structural Biology</i> , 2011, 173, 99-109.	2.8	17
49	Magnetic-Nanoparticle-Decorated Polypyrrole Microvessels: Toward Encapsulation of mRNA Cap Analogues. <i>Biomacromolecules</i> , 2013, 14, 1867-1876.	5.4	17
50	Pyrene-Loaded Polypyrrole Microvessels. <i>Langmuir</i> , 2011, 27, 12720-12729.	3.5	16
51	Aragonitic scleractinian corals in the Cretaceous calcitic sea. <i>Geology</i> , 2017, 45, 319-322.	4.4	16
52	The earliest diverging extant scleractinian corals recovered by mitochondrial genomes. <i>Scientific Reports</i> , 2020, 10, 20714.	3.3	16
53	Towards a new synthesis of evolutionary relationships and classification of Scleractinia. <i>Journal of Paleontology</i> , 2001, 75, 1090-1108.	0.8	15
54	Bromide-doped polypyrrole microcapsules modified with gold nanoparticles. <i>Polymer</i> , 2012, 53, 5320-5329.	3.8	15

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55	Deltocyathiidae, an early-diverging family of Robust corals (Anthozoa, Scleractinia). <i>Zoologica Scripta</i> , 2013, 42, 201-212.	1.7	15
56	Ultrascale and microscale growth dynamics of the cidaroid spine of <i>Phyllacanthus imperialis</i> revealed by <sup>26</sup> Mg labeling and NanoSIMS isotopic imaging. <i>Journal of Morphology</i> , 2014, 275, 788-796.	1.2	15
57	TRIASSIC ROOTS OF THE AMPHIASTRAEID SCLERACTINIAN CORALS. <i>Journal of Paleontology</i> , 2001, 75, 34-45.	0.8	14
58	Speciation of Mg in biogenic calcium carbonates. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012175.	0.4	14
59	Toluene-Filled Polypyrrole Microvessels: Entrapment and Dynamics of Encapsulated Perylene. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14890-14896.	2.6	13
60	Stable carbon and oxygen isotope compositions of extant crinoidal echinoderm skeletons. <i>Chemical Geology</i> , 2012, 291, 132-140.	3.3	13
61	Evidence for Rhythmicity Pacemaker in the Calcification Process of Scleractinian Coral. <i>Scientific Reports</i> , 2016, 6, 20191.	3.3	13
62	A Cenozoic record of seawater uranium in fossil corals. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 173-190.	3.9	13
63	Polypyrrole microcapsules loaded with gold nanoparticles: Perspectives for biomedical imaging. <i>Synthetic Metals</i> , 2019, 248, 27-34.	3.9	13
64	First Mesozoic record of the scleractinian <i>Madrepora</i> from the Maastrichtian siliceous limestones of Poland. <i>Facies</i> , 2007, 53, 67-78.	1.4	12
65	Sea urchin growth dynamics at microstructural length scale revealed by Mn-labeling and cathodoluminescence imaging. <i>Frontiers in Zoology</i> , 2017, 14, 42.	2.0	11
66	Fish Otolith Matrix Macromolecule-64 (OMM-64) and Its Role in Calcium Carbonate Biomineralization. <i>Crystal Growth and Design</i> , 2020, 20, 5808-5819.	3.0	11
67	Physiological and Transcriptomic Variability Indicative of Differences in Key Functions Within a Single Coral Colony. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	10
68	Effects of seawater chemistry (Mg <sup>2+</sup> /Ca <sup>2+</sup> ratio) and diet on the skeletal Mg/Ca ratio in the common sea urchin <i>Paracentrotus lividus</i> . <i>Marine Environmental Research</i> , 2019, 145, 22-26.	2.5	9
69	Effects of seawater Mg <sup>2+</sup> /Ca <sup>2+</sup> ratio and diet on the biomineralization and growth of sea urchins and the relevance of fossil echinoderms to paleoenvironmental reconstructions. <i>Geobiology</i> , 2020, 18, 710-724.	2.4	9
70	Fast and pervasive diagenetic isotope exchange in foraminifera tests is species-dependent. <i>Nature Communications</i> , 2022, 13, 113.	12.8	9
71	Caryophylliids (Anthozoa, Scleractinia) and mitochondrial gene order: Insights from mitochondrial and nuclear phylogenomics. <i>Molecular Phylogenetics and Evolution</i> , 2022, 175, 107565.	2.7	9
72	Skeletal ontogeny in basal scleractinian micrabaciid corals. <i>Journal of Morphology</i> , 2013, 274, 243-257.	1.2	8

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73	Microstructural disparity between basal micrabaciids and other Scleractinia: new evidence from Neogene Stephanophyllia. <i>Lethaia</i> , 2015, 48, 417-428.	1.4	8
74	Macroporous microspheres and microspheroidal particles from polyhydromethylsiloxane. <i>Colloid and Polymer Science</i> , 2017, 295, 939-944.	2.1	8
75	Impact of seawater Mg <sup>2+</sup> /Ca <sup>2+</sup> on Mg/Ca of asterozoan skeleton – Evidence from culturing and the fossil record. <i>Chemical Geology</i> , 2021, 584, 120557.	3.3	7
76	Simultaneous extension of both basic microstructural components in scleractinian coral skeleton during night and daytime, visualized by in situ <sup>86</sup> Sr pulse labeling. <i>Journal of Structural Biology</i> , 2014, 185, 79-88.	2.8	7
77	Gold-decorated polymer vessel structures as carriers of mRNA cap analogs. <i>Polymer</i> , 2015, 57, 77-87.	3.8	6
78	Phylogeography of recent Plesiastrea (Scleractinia: Plesiastreidae) based on an integrated taxonomic approach. <i>Molecular Phylogenetics and Evolution</i> , 2022, 172, 107469.	2.7	6
79	Molecular techniques and their limitations shape our view of the holobiont. <i>Zoology</i> , 2019, 137, 125695.	1.2	5
80	Two Rare Pustulose/spinose Morphotypes of Benthic Foraminifera from Eastern Ross Sea, Antarctica. <i>Journal of Foraminiferal Research</i> , 2019, 49, 405-422.	0.5	5
81	Triassic roots of the amphiastraeid scleractinian corals. <i>Journal of Paleontology</i> , 2001, 75, 34-45.	0.8	4
82	Photosymbiosis in Late Triassic scleractinian corals from the Italian Dolomites. <i>PeerJ</i> , 2021, 9, e11062.	2.0	3
83	Morphology, microstructure, crystallography, and chemistry of distinct CaCO <sub>3</sub> deposits formed by early recruits of the scleractinian coral <i>Pocillopora damicornis</i> . <i>Journal of Morphology</i> , 2015, 276, 1146-1156.	1.2	2
84	<i>Conopora</i> (Stylasteridae, Hydrozoa) from the Eocene of Seymour Island. <i>Antarctic Science</i> , 1998, 10, 487-492.	0.9	1
85	Molecular and Skeletal Fingerprints of Scleractinian Coral Biomineralization from the Sea Surface to Mesophotic Depths. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0