

Steve Weiner

List of Publications by Year in descending order

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Version: 2024-02-01

211
papers

26,506
citations

7568

77
h-index

6471

157
g-index

221
all docs

221
docs citations

221
times ranked

20736
citing authors

#	ARTICLE	IF	CITATIONS
1	The shell microstructure of the pteropod <i>Creseis acicula</i> is composed of nested arrays of S-shaped aragonite fibers: A unique biological material. <i>MRS Bulletin</i> , 2022, 47, 18-28.	3.5	6
2	Structural organization of xanthine crystals in the median ocellus of a member of the ancestral insect group Archaeognatha. <i>Journal of Structural Biology</i> , 2022, 214, 107834.	2.8	4
3	Fluorescent Silica Nanoparticles to Label Metastatic Tumor Cells in Mineralized Bone Microenvironments. <i>Small</i> , 2021, 17, e2001432.	10.0	14
4	Focused ion beam-SEM 3D analysis of mineralized osteonal bone: lamellae and cement sheath structures. <i>Acta Biomaterialia</i> , 2021, 121, 497-513.	8.3	18
5	High resolution 3D structures of mineralized tissues in health and disease. <i>Nature Reviews Endocrinology</i> , 2021, 17, 307-316.	9.6	15
6	Calcium Sulfate Hemihydrate (Bassanite) Crystals in the Wood of the Tamarix Tree. <i>Minerals (Basel)</i> , 2020, 10, 1075.	2.0	5
7	Microstructural heterogeneity of the collagenous network in the loaded and unloaded periodontal ligament and its biomechanical implications. <i>Journal of Structural Biology</i> , 2021, 213, 107772.	2.8	6
8	Characterization of the growth plate-bone interphase region using cryo-FIB SEM 3D volume imaging. <i>Journal of Structural Biology</i> , 2021, 213, 107781.	2.8	9
9	Ion Pathways in Biomineralization: Perspectives on Uptake, Transport, and Deposition of Calcium, Carbonate, and Phosphate. <i>Journal of the American Chemical Society</i> , 2021, 143, 21100-21112.	13.7	44
10	Mineralization pathways in the active murine epiphyseal growth plate. <i>Bone</i> , 2020, 130, 115086.	2.9	25
11	A highly reflective biogenic photonic material from core-shell birefringent nanoparticles. <i>Nature Nanotechnology</i> , 2020, 15, 138-144.	31.5	26
12	Biomineralization pathways in calcifying dinoflagellates: Uptake, storage in MgCaP-rich bodies and formation of the shell. <i>Acta Biomaterialia</i> , 2020, 102, 427-439.	8.3	27
13	Cellular pathways of calcium transport and concentration toward mineral formation in sea urchin larvae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30957-30965.	7.1	37
14	Archaeological Ceramic Diagenesis: Clay Mineral Recrystallization in Sherds from a Late Byzantine Kiln, Israel. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 408.	2.0	6
15	High temperature pyrotechnology: A macro- and microarchaeology study of a late Byzantine-beginning of Early Islamic period (7th century CE) pottery kiln from Tel Qatra/Gedera, Israel. <i>Journal of Archaeological Science: Reports</i> , 2020, 31, 102263.	0.5	5
16	Unique three-dimensional structure of a fish pharyngeal jaw subjected to unusually high mechanical loads. <i>Journal of Structural Biology</i> , 2020, 211, 107530.	2.8	10
17	Characterization and possible function of an enigmatic reflector in the eye of the shrimp <i>Litopenaeus vannamei</i> . <i>Faraday Discussions</i> , 2020, 223, 278-294.	3.2	2
18	Natural Photonic Structures from Birefringent Core-Shell Nanoparticles. <i>Optics and Photonics News</i> , 2020, 31, 51.	0.5	0

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19	A unique methionine-rich protein- α -aragonite crystal complex: Structure and mechanical functions of the <i>Pinctada fucata</i> bivalve hinge ligament. <i>Acta Biomaterialia</i> , 2019, 100, 1-9.	8.3	9
20	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. <i>Science</i> , 2019, 363, 396-400.	12.6	153
21	Structure and Morphology of Light-Reflecting Synthetic and Biogenic Polymorphs of Isoxanthopterin: A Comparison. <i>Chemistry of Materials</i> , 2019, 31, 4479-4489.	6.7	12
22	Anhydrous β -guanine crystals in a marine dinoflagellate: Structure and suggested function. <i>Journal of Structural Biology</i> , 2019, 207, 12-20.	2.8	32
23	An unusual disordered alveolar bone material in the upper furcation region of minipig mandibles: A 3D hierarchical structural study. <i>Journal of Structural Biology</i> , 2019, 206, 128-137.	2.8	12
24	Intercellular pathways from the vasculature to the forming bone in the zebrafish larval caudal fin: Possible role in bone formation. <i>Journal of Structural Biology</i> , 2019, 206, 139-148.	2.8	30
25	The Pteropod <i>Creseis acicula</i> Forms Its Shell through a Disordered Nascent Aragonite Phase. <i>Crystal Growth and Design</i> , 2019, 19, 2564-2573.	3.0	12
26	A 3D study of the relationship between leaf vein structure and mechanical function. <i>Acta Biomaterialia</i> , 2019, 88, 111-119.	8.3	15
27	Chalcolithic groundwater mining in the southern Levant: open, vertical shafts in the Late Chalcolithic central coastal plain settlement landscape of Israel. <i>Levant</i> , 2019, 51, 236-270.	0.9	0
28	Guanine and 7,8-Dihydroxanthopterin Reflecting Crystals in the Zander Fish Eye: Crystal Locations, Compositions, and Structures. <i>Journal of the American Chemical Society</i> , 2019, 141, 19736-19745.	13.7	18
29	The Chronology of the Late Bronze (LB)-Iron Age (IA) Transition in the Southern Levant: A Response to Finkelstein's Critique. <i>Radiocarbon</i> , 2019, 61, 1-11.	1.8	11
30	Response of the tooth-periodontal ligament-bone complex to load: A microCT study of the minipig molar. <i>Journal of Structural Biology</i> , 2019, 205, 155-162.	2.8	16
31	Microflint in archaeological sediments from Boker Tachtit, Israel: A new method for quantifying concentrations of small flint fragments. <i>Journal of Archaeological Science</i> , 2018, 91, 52-64.	2.4	2
32	Optically functional isoxanthopterin crystals in the mirrored eyes of decapod crustaceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2299-2304.	7.1	39
33	Open questions on the 3D structures of collagen containing vertebrate mineralized tissues: A perspective. <i>Journal of Structural Biology</i> , 2018, 201, 187-198.	2.8	13
34	Mineral Deposits in <i>Ficus</i> Leaves: Morphologies and Locations in Relation to Function. <i>Plant Physiology</i> , 2018, 176, 1751-1763.	4.8	34
35	Microarchaeology at Tell e- α - β /Gath, Area A. <i>Near Eastern Archaeology</i> , 2018, 81, 24-27.	0.2	0
36	Calcium Ion and Mineral Pathways in Biomineralization: A Perspective. , 2018, , 97-103.		4

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37	A powder preparation kit from the Middle Bronze Age at Megiddo, Israel: Tools and raw materials. <i>Journal of Archaeological Science: Reports</i> , 2018, 21, 667-678.	0.5	0
38	Characterization of unusual MgCa particles involved in the formation of foraminifera shells using a novel quantitative cryo SEM/EDS protocol. <i>Acta Biomaterialia</i> , 2018, 77, 342-351.	8.3	26
39	The Organic Crystalline Materials of Vision: Structure–Function Considerations from the Nanometer to the Millimeter Scale. <i>Advanced Materials</i> , 2018, 30, e1800006.	21.0	38
40	Heating of flint artifacts from the site of Boker Tachtit (Israel) was not detected using FTIR peak broadening. <i>Journal of Archaeological Science: Reports</i> , 2017, 12, 173-182.	0.5	8
41	A new method for extracting the insoluble occluded carbon in archaeological and modern phytoliths: Detection of ¹⁴ C depleted carbon fraction and implications for radiocarbon dating. <i>Journal of Archaeological Science</i> , 2017, 78, 57-65.	2.4	17
42	Biologically Controlled Morphology and Twinning in Guanine Crystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9420-9424.	13.8	36
43	Light Manipulation by Guanine Crystals in Organisms: Biogenic Scatterers, Mirrors, Multilayer Reflectors and Photonic Crystals. <i>Advanced Functional Materials</i> , 2017, 27, 1603514.	14.9	125
44	Biologically Controlled Morphology and Twinning in Guanine Crystals. <i>Angewandte Chemie</i> , 2017, 129, 9548-9552.	2.0	25
45	A 10,400-year-old sunken lime kiln from the Early Pre-Pottery Neolithic B at the Nesher-Ramla quarry (el-Khirbe), Israel. <i>Journal of Archaeological Science: Reports</i> , 2017, 14, 353-364.	0.5	13
46	Plants and Light Manipulation: The Integrated Mineral System in Okra Leaves. <i>Advanced Science</i> , 2017, 4, 1600416.	11.2	33
47	The image-forming mirror in the eye of the scallop. <i>Science</i> , 2017, 358, 1172-1175.	12.6	90
48	Zebrafish skeleton development: High resolution micro-CT and FIB-SEM block surface serial imaging for phenotype identification. <i>PLoS ONE</i> , 2017, 12, e0177731.	2.5	18
49	Koi Fish Scale Iridophore Cells Orient Guanine Crystals to Maximize Light Reflection. <i>ChemPlusChem</i> , 2017, 82, 914-923.	2.8	14
50	Bone mineralization pathways during the rapid growth of embryonic chicken long bones. <i>Journal of Structural Biology</i> , 2016, 195, 82-92.	2.8	64
51	Cryo-FIB-SEM serial milling and block face imaging: Large volume structural analysis of biological tissues preserved close to their native state. <i>Journal of Structural Biology</i> , 2016, 196, 487-495.	2.8	71
52	Mineral Formation in the Larval Zebrafish Tail Bone Occurs via an Acidic Disordered Calcium Phosphate Phase. <i>Journal of the American Chemical Society</i> , 2016, 138, 14481-14487.	13.7	62
53	Inter-trabecular angle: A parameter of trabecular bone architecture in the human proximal femur that reveals underlying topological motifs. <i>Acta Biomaterialia</i> , 2016, 44, 65-72.	8.3	41
54	Guanine Crystallization in Aqueous Solutions Enables Control over Crystal Size and Polymorphism. <i>Crystal Growth and Design</i> , 2016, 16, 4975-4980.	3.0	54

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55	Calcium transport into the cells of the sea urchin larva in relation to spicule formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12637-12642.	7.1	74
56	Light-Induced Color Change in the Sapphirinid Copepods: Tunable Photonic Crystals. Advanced Functional Materials, 2016, 26, 1393-1399.	14.9	48
57	Control of Biogenic Nanocrystal Formation in Biomineralization. Israel Journal of Chemistry, 2016, 56, 227-241.	2.3	28
58	Biomineralization pathways in a foraminifer revealed using a novel correlative cryo-fluorescence-SEM-EDS technique. Journal of Structural Biology, 2016, 196, 155-163.	2.8	34
59	The response of anosteocytic bone to controlled loading. Journal of Experimental Biology, 2015, 218, 3559-3569.	1.7	21
60	The Mechanism of Color Change in the Neon Tetra Fish: a Light-Induced Tunable Photonic Crystal Array. Angewandte Chemie, 2015, 127, 12603-12607.	2.0	16
61	The Mechanism of Color Change in the Neon Tetra Fish: a Light-Induced Tunable Photonic Crystal Array. Angewandte Chemie - International Edition, 2015, 54, 12426-12430.	13.8	152
62	Geoarchaeological Investigation in a Domestic Iron Age Quarter, Tel Megiddo, Israel. Bulletin of the American Schools of Oriental Research, 2015, 374, 135-157.	0.2	42
63	Radiocarbon Dating Shows an Early Appearance of Philistine Material Culture in Tell es-Safi/Gath, Philistia. Radiocarbon, 2015, 57, 825-850.	1.8	27
64	Opposite Particle Size Effect on Amorphous Calcium Carbonate Crystallization in Water and during Heating in Air. Chemistry of Materials, 2015, 27, 4237-4246.	6.7	80
65	On the pathway of mineral deposition in larval zebrafish caudal fin bone. Bone, 2015, 75, 192-200.	2.9	74
66	Preface- The Iron Age in Israel: The Exact and Life Sciences Perspectives. Radiocarbon, 2015, 57, 197-206.	1.8	17
67	Mineral-bearing vesicle transport in sea urchin embryos. Journal of Structural Biology, 2015, 192, 358-365.	2.8	46
68	The gizzard plates in the Cephalaspidean gastropod <i>Philine quadripartita</i> : Analysis of structure and function. Quaternary International, 2015, 390, 4-14.	1.5	6
69	Phosphate-Water Interplay Tunes Amorphous Calcium Carbonate Metastability: Spontaneous Phase Separation and Crystallization vs Stabilization Viewed by Solid State NMR. Journal of the American Chemical Society, 2015, 137, 990-998.	13.7	76
70	Structural Basis for the Brilliant Colors of the Sapphirinid Copepods. Journal of the American Chemical Society, 2015, 137, 8408-8411.	13.7	89
71	Absolute Dating of the Late Bronze to Iron Age Transition and the Appearance of Philistine Culture in Qubur el-Walaydah, Southern Levant. Radiocarbon, 2015, 57, 77-97.	1.8	39
72	A perspective on underlying crystal growth mechanisms in biomineralization: solution mediated growth versus nanosphere particle accretion. CrystEngComm, 2015, 17, 2606-2615.	2.6	82

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73	Heating of flint debitage from Upper Palaeolithic contexts at Manot Cave, Israel: changes in atomic organization due to heating using infrared spectroscopy. <i>Journal of Archaeological Science</i> , 2015, 54, 45-53.	2.4	26
74	The three-dimensional structure of anosteocytic lamellated bone of fish. <i>Acta Biomaterialia</i> , 2015, 13, 311-323.	8.3	27
75	The 3D structure of the collagen fibril network in human trabecular bone: Relation to trabecular organization. <i>Bone</i> , 2015, 71, 189-195.	2.9	63
76	Biomineralization: mineral formation by organisms. <i>Physica Scripta</i> , 2014, 89, 098003.	2.5	95
77	Direct MicroCT imaging of non-mineralized connective tissues at high resolution. <i>Connective Tissue Research</i> , 2014, 55, 52-60.	2.3	20
78	The Structural Basis for Enhanced Silver Reflectance in Koi Fish Scale and Skin. <i>Journal of the American Chemical Society</i> , 2014, 136, 17236-17242.	13.7	61
79	Microscale distribution and concentration of preserved organic molecules with carbon-carbon double bonds in archaeological ceramics: relevance to the field of residue analysis. <i>Journal of Archaeological Science</i> , 2014, 42, 509-518.	2.4	17
80	Initial stages of calcium uptake and mineral deposition in sea urchin embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 39-44.	7.1	142
81	Remodeling in bone without osteocytes: Billfish challenge bone structure-function paradigms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16047-16052.	7.1	68
82	Oxygen Spectroscopy and Polarization-Dependent Imaging Contrast (PIC)-Mapping of Calcium Carbonate Minerals and Biominerals. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8449-8457.	2.6	60
83	Particle Accretion Mechanism Underlies Biological Crystal Growth from an Amorphous Precursor Phase. <i>Advanced Functional Materials</i> , 2014, 24, 5420-5426.	14.9	132
84	Bone hierarchical structure in three dimensions. <i>Acta Biomaterialia</i> , 2014, 10, 3815-3826.	8.3	501
85	Three-dimensional structure of minipig fibrolamellar bone: Adaptation to axial loading. <i>Journal of Structural Biology</i> , 2014, 186, 253-264.	2.8	29
86	Three-dimensional structure of human lamellar bone: The presence of two different materials and new insights into the hierarchical organization. <i>Bone</i> , 2014, 59, 93-104.	2.9	193
87	Tooth periodontal ligament: Direct 3D microCT visualization of the collagen network and how the network changes when the tooth is loaded. <i>Journal of Structural Biology</i> , 2013, 181, 108-115.	2.8	37
88	Calcite Crystal Growth by a Solid-State Transformation of Stabilized Amorphous Calcium Carbonate Nanospheres in a Hydrogel. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4867-4870.	13.8	88
89	Three-dimensional imaging of collagen fibril organization in rat circumferential lamellar bone using a dual beam electron microscope reveals ordered and disordered sub-lamellar structures. <i>Bone</i> , 2013, 52, 676-683.	2.9	131
90	Guanine-Based Photonic Crystals in Fish Scales Form from an Amorphous Precursor. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 388-391.	13.8	60

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91	Biogenic Fish-gut Calcium Carbonate is a Stable Amorphous Phase in the Gilt-head Seabream, Sparus aurata. Scientific Reports, 2013, 3, 1700.	3.3	48
92	Toothâ€PDLâ€bone complex: Response to compressive loads encountered during mastication â€A review. Archives of Oral Biology, 2012, 57, 1575-1584.	1.8	73
93	Iron and bronze production in Iron Age IIA Philistia: new evidence from Tell es-Safi/Gath, Israel. Journal of Archaeological Science, 2012, 39, 255-267.	2.4	68
94	Human impact around settlement sites: a phytolith and mineralogical study for assessing site boundaries, phytolith preservation, and implications for spatial reconstructions using plant remains. Journal of Archaeological Science, 2012, 39, 2697-2705.	2.4	51
95	Tooth movements are guided by specific contact areas between the tooth root and the jaw bone: A dynamic 3D microCT study of the rat molar. Journal of Structural Biology, 2012, 177, 477-483.	2.8	37
96	Plaster Characterization at the PPNB Site of Yiftahel (Israel) Including the Use of 14C: Implications for Plaster Production, Preservation, and Dating. Radiocarbon, 2012, 54, 887-896.	1.8	37
97	Reconstructing Ancient Israel: Integrating Macro- and Micro-archaeology. Hebrew Bible and Ancient Israel, 2012, 1, 133.	0.1	6
98	Plant Cystoliths: A Complex Functional Biocomposite of Four Distinct Silica and Amorphous Calcium Carbonate Phases. Chemistry - A European Journal, 2012, 18, 10262-10270.	3.3	49
99	Certain Biominerals in Leaves Function as Light Scatterers. Advanced Materials, 2012, 24, OP77-83.	21.0	74
100	Atomic order of aragonite crystals formed by mollusks. CrystEngComm, 2011, 13, 6780.	2.6	23
101	Mineral and Matrix Components of the Operculum and Shell of the Barnacle <i>Balanus amphitrite</i>: Calcite Crystal Growth in a Hydrogel. Crystal Growth and Design, 2011, 11, 5122-5130.	3.0	35
102	Crystallization Pathways in Biomineralization. Annual Review of Materials Research, 2011, 41, 21-40.	9.3	456
103	Crystallization Pathways in Bone. Cells Tissues Organs, 2011, 194, 92-97.	2.3	52
104	Formation of Aragonite Crystals in the Crossed Lamellar Microstructure of Limpet Shells. Crystal Growth and Design, 2011, 11, 4850-4859.	3.0	33
105	Stability of phytoliths in the archaeological record: a dissolution study of modern and fossil phytoliths. Journal of Archaeological Science, 2011, 38, 2480-2490.	2.4	216
106	The 9th century BCE destruction layer at Tell es-Safi/Gath, Israel: integrating macro- and microarchaeology. Journal of Archaeological Science, 2011, 38, 3471-3482.	2.4	53
107	Bone mineralization proceeds through intracellular calcium phosphate loaded vesicles: A cryo-electron microscopy study. Journal of Structural Biology, 2011, 174, 527-535.	2.8	227
108	Persistence of soil organic matter as an ecosystem property. Nature, 2011, 478, 49-56.	27.8	4,243

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109	Radiocarbon Concentrations of Wood Ash Calcite: Potential for Dating. <i>Radiocarbon</i> , 2011, 53, 117-127.	1.8	24
110	Structure-function relations of primate lower incisors: a study of the deformation of <i>Macaca mulatta</i> dentition using electronic speckle pattern interferometry (ESPI). <i>Journal of Anatomy</i> , 2011, 218, 87-95.	1.5	12
111	Variations in Atomic Disorder in Biogenic Carbonate Hydroxyapatite Using the Infrared Spectrum Grinding Curve Method. <i>Advanced Functional Materials</i> , 2011, 21, 3308-3313.	14.9	40
112	Decoupling Local Disorder and Optical Effects in Infrared Spectra: Differentiating Between Calcites with Different Origins. <i>Advanced Materials</i> , 2011, 23, 550-554.	21.0	91
113	The Contribution of Trabecular Bone to the Stiffness and Strength of Rat Lumbar Vertebrae. <i>Spine</i> , 2010, 35, E1153-E1159.	2.0	17
114	Guanine-Based Biogenic Photonic Crystal Arrays in Fish and Spiders. <i>Advanced Functional Materials</i> , 2010, 20, 320-329.	14.9	136
115	Bio-Inspired Materials – Mining the Old Literature for New Ideas. <i>Advanced Materials</i> , 2010, 22, 4547-4550.	21.0	23
116	Mapping amorphous calcium phosphate transformation into crystalline mineral from the cell to the bone in zebrafish fin rays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6316-6321.	7.1	389
117	Calcium Oxalate Stone Formation in the Inner Ear as a Result of an <i>Slc26a4</i> Mutation. <i>Journal of Biological Chemistry</i> , 2010, 285, 21724-21735.	3.4	81
118	The Stabilizing Effect of Silicate on Biogenic and Synthetic Amorphous Calcium Carbonate. <i>Journal of the American Chemical Society</i> , 2010, 132, 13208-13211.	13.7	71
119	Role of Magnesium Ion in the Stabilization of Biogenic Amorphous Calcium Carbonate: A Structure-Function Investigation. <i>Chemistry of Materials</i> , 2010, 22, 161-166.	6.7	204
120	Iron Age hydraulic plaster from Tell es-Safi/Gath, Israel. <i>Journal of Archaeological Science</i> , 2010, 37, 3000-3009.	2.4	39
121	Distinguishing between calcites formed by different mechanisms using infrared spectrometry: archaeological applications. <i>Journal of Archaeological Science</i> , 2010, 37, 3022-3029.	2.4	182
122	The grinding tip of the sea urchin tooth exhibits exquisite control over calcite crystal orientation and Mg distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6048-6053.	7.1	161
123	Radiocarbon dating of charcoal and bone collagen associated with early pottery at Yuchanyan Cave, Hunan Province, China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9595-9600.	7.1	153
124	Design Strategy of Minipig Molars Using Electronic Speckle Pattern Interferometry: Comparison of Deformation under Load between the Tooth-Mandible Complex and the Isolated Tooth. <i>Advanced Materials</i> , 2009, 21, 413-418.	21.0	25
125	Overview of the amorphous precursor phase strategy in biomineralization. <i>Frontiers of Materials Science in China</i> , 2009, 3, 104-108.	0.5	97
126	Are tensile and compressive Young's moduli of compact bone different?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2009, 2, 51-60.	3.1	65

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127	Determining the elastic modulus of mouse cortical bone using electronic speckle pattern interferometry (ESPI) and micro computed tomography: A new approach for characterizing small-bone material properties. <i>Bone</i> , 2009, 45, 84-90.	2.9	12
128	New methods to isolate organic materials from silicified phytoliths reveal fragmented glycoproteins but no DNA. <i>Quaternary International</i> , 2009, 193, 11-19.	1.5	52
129	The contents of unusual cone-shaped vessels (cornets) from the Chalcolithic of the southern Levant. <i>Journal of Archaeological Science</i> , 2009, 36, 629-636.	2.4	23
130	Use of space in a Neolithic village in Greece (Makri): phytolith analysis and comparison of phytolith assemblages from an ethnographic setting in the same area. <i>Journal of Archaeological Science</i> , 2009, 36, 2342-2352.	2.4	56
131	Identifying a Roman Casting Pit at Tel Dor, Israel: Integrating Field and Laboratory Research. <i>Journal of Field Archaeology</i> , 2009, 34, 135-151.	1.3	5
132	Sea Urchin Tooth Design: An All-Cellulose Polycrystalline Reinforced Fiber Composite for Grinding Rocks. <i>Advanced Materials</i> , 2008, 20, 1555-1559.	21.0	111
133	Forming nacreous layer of the shells of the bivalves <i>Atrina rigida</i> and <i>Pinctada margaritifera</i> : An environmental- and cryo-scanning electron microscopy study. <i>Journal of Structural Biology</i> , 2008, 162, 290-300.	2.8	115
134	Phytolith-rich layers from the Late Bronze and Iron Ages at Tel Dor (Israel): mode of formation and archaeological significance. <i>Journal of Archaeological Science</i> , 2008, 35, 57-75.	2.4	179
135	Ethnoarchaeological study of phytolith assemblages from an agro-pastoral village in Northern Greece (Sarakini): development and application of a Phytolith Difference Index. <i>Journal of Archaeological Science</i> , 2008, 35, 600-613.	2.4	83
136	Differentiating between anthropogenic calcite in plaster, ash and natural calcite using infrared spectroscopy: implications in archaeology. <i>Journal of Archaeological Science</i> , 2008, 35, 905-911.	2.4	96
137	An integrated approach to reconstructing primary activities from pit deposits: iron smithing and other activities at Tel Dor under Neo-Assyrian domination. <i>Journal of Archaeological Science</i> , 2008, 35, 2895-2908.	2.4	26
138	Transformation mechanism of amorphous calcium carbonate into calcite in the sea urchin larval spicule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17362-17366.	7.1	380
139	Importance of the integrity of trabecular bone to the relationship between load and deformation of rat femora: an optical metrology study. <i>Journal of Materials Chemistry</i> , 2008, 18, 3855.	6.7	16
140	Amorphous calcium phosphate is a major component of the forming fin bones of zebrafish: Indications for an amorphous precursor phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12748-12753.	7.1	490
141	Biogenic Guanine Crystals from the Skin of Fish May Be Designed to Enhance Light Reflectance. <i>Crystal Growth and Design</i> , 2008, 8, 507-511.	3.0	118
142	Iron Age beehives at Tel Reá'ov in the Jordan valley. <i>Antiquity</i> , 2008, 82, 629-639.	1.0	24
143	Biom mineralization of limpet teeth: A cryo-TEM study of the organic matrix and the onset of mineral deposition. <i>Journal of Structural Biology</i> , 2007, 158, 428-444.	2.8	60
144	Sediments exposed to high temperatures: reconstructing pyrotechnological processes in Late Bronze and Iron Age Strata at Tel Dor (Israel). <i>Journal of Archaeological Science</i> , 2007, 34, 358-373.	2.4	241

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145	The phytolith archaeological record: strengths and weaknesses evaluated based on a quantitative modern reference collection from Greece. <i>Journal of Archaeological Science</i> , 2007, 34, 1262-1275.	2.4	170
146	Asprich mollusk shell protein: in vitro experiments aimed at elucidating function in CaCO ₃ crystallization. <i>CrystEngComm</i> , 2007, 9, 1171.	2.6	105
147	Spiers Memorial Lecture : Lessons from biomineralization: comparing the growth strategies of mollusc shell prismatic and nacreous layers in <i>Atrina rigida</i> . <i>Faraday Discussions</i> , 2007, 136, 9.	3.2	217
148	Structural Characterization of Modern and Fossilized Charcoal Produced in Natural Fires as Determined by Using Electron Energy Loss Spectroscopy. <i>Chemistry - A European Journal</i> , 2007, 13, 2306-2310.	3.3	37
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