

# Fabio Nudelman

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

4,712  
citations

236925

25  
h-index

223800

46  
g-index

54  
all docs

54  
docs citations

54  
times ranked

5587  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micron-sized biogenic and synthetic hollow mineral spheres occlude additives within single crystals. <i>Faraday Discussions</i> , 2022, 235, 536-550.	3.2	4
2	A first-order phase transition in Blatter's radical at high pressure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2022, 78, 107-116.	1.1	2
3	Enhancing strength in mineralized collagen. <i>Science</i> , 2022, 376, 137-138.	12.6	5
4	Ablation of <i>Enpp6</i> Results in Transient Bone Hypomineralization. <i>JBMR Plus</i> , 2021, 5, e10439.	2.7	4
5	The effects of strontium-doped bioactive glass and fluoride on hydroxyapatite crystallization. <i>Journal of Dentistry</i> , 2021, 105, 103581.	4.1	21
6	Mechanical adaptation of brachiopod shells via hydration-induced structural changes. <i>Nature Communications</i> , 2021, 12, 5383.	12.8	9
7	Revealing the early stages of carbamazepine crystallization by cryoTEM and 3D electron diffraction. <i>IUCr</i> , 2021, 8, 860-866.	2.2	10
8	Intermolecular channels direct crystal orientation in mineralized collagen. <i>Nature Communications</i> , 2020, 11, 5068.	12.8	90
9	Morphological development of <i>Pleurochrysis carterae</i> coccoliths examined by cryo-electron tomography. <i>Journal of Structural Biology</i> , 2020, 210, 107476.	2.8	15
10	Disordered Filaments Mediate the Fibrillogenesis of Type I Collagen in Solution. <i>Biomacromolecules</i> , 2020, 21, 3631-3643.	5.4	10
11	Effect of Ag Co-catalyst on TiO <sub>2</sub> @Cu <sub>2</sub> O nanocomposites structure and apparent visible photocatalytic activity. <i>Journal of Environmental Management</i> , 2020, 260, 110175.	7.8	5
12	A lathe system for micrometre-sized cylindrical sample preparation at room and cryogenic temperatures. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 472-476.	2.4	12
13	Polymorph evolution during crystal growth studied by 3D electron diffraction. <i>IUCr</i> , 2020, 7, 5-9.	2.2	27
14	Three-dimensional architecture and surface functionality of coccolith base plates. <i>Journal of Structural Biology</i> , 2019, 208, 127-136.	2.8	15
15	$\beta$ -Chitin Nanofibril Self-Assembly in Aqueous Environments. <i>Biomacromolecules</i> , 2019, 20, 2421-2429.	5.4	19
16	A Biomimetic Model for Mineralization of Type-I Collagen Fibrils. <i>Methods in Molecular Biology</i> , 2019, 1944, 39-54.	0.9	11
17	Polymorph Selectivity of Coccolith-Associated Polysaccharides from <i>Gephyrocapsa Oceanica</i> on Calcium Carbonate Formation In Vitro. <i>Advanced Functional Materials</i> , 2019, 29, 1807168.	14.9	21
18	...Detection of calcification in atherosclerotic plaques using optical imaging. , 2018, , .		0

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19	A novel fluorescein-bisphosphonate based diagnostic tool for the detection of hydroxyapatite in both cell and tissue models. <i>Scientific Reports</i> , 2018, 8, 17360.	3.3	14
20	Formation of Fluorohydroxyapatite with Silver Diamine Fluoride. <i>Journal of Dental Research</i> , 2017, 96, 1122-1128.	5.2	89
21	Frustrated Lewis Pair Polymers as Responsive Self-Healing Gels. <i>Journal of the American Chemical Society</i> , 2017, 139, 14232-14236.	13.7	95
22	Solid-State Transformation of Amorphous Calcium Carbonate to Aragonite Captured by CryoTEM. <i>Angewandte Chemie</i> , 2017, 129, 11902-11905.	2.0	7
23	A classical view on nonclassical nucleation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7882-E7890.	7.1	181
24	Solid-State Transformation of Amorphous Calcium Carbonate to Aragonite Captured by CryoTEM. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11740-11743.	13.8	66
25	Long-Lived Foams Stabilized by a Hydrophobic Dipeptide Hydrogel. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500601.	3.7	26
26	Controlling Internal Pore Sizes in Bicontinuous Polymeric Nanospheres. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2457-2461.	13.8	56
27	Nacre biomineralisation: A review on the mechanisms of crystal nucleation. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 2-10.	5.0	67
28	Controlling Internal Pore Sizes in Bicontinuous Polymeric Nanospheres. <i>Angewandte Chemie</i> , 2015, 127, 2487-2491.	2.0	13
29	Enzymatic pH control for biomimetic deposition of calcium phosphate coatings. <i>Acta Biomaterialia</i> , 2014, 10, 931-939.	8.3	21
30	In vitro models of collagen biomineralization. <i>Journal of Structural Biology</i> , 2013, 183, 258-269.	2.8	215
31	Controlling the Distribution of Supported Nanoparticles by Aqueous Synthesis. <i>Chemistry of Materials</i> , 2013, 25, 890-896.	6.7	44
32	The role of the amorphous phase on the biomimetic mineralization of collagen. <i>Faraday Discussions</i> , 2012, 159, 357.	3.2	73
33	Biomineralization as an Inspiration for Materials Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6582-6596.	13.8	426
34	Think Positive: Phase Separation Enables a Positively Charged Additive to Induce Dramatic Changes in Calcium Carbonate Morphology. <i>Advanced Functional Materials</i> , 2012, 22, 907-915.	14.9	128
35	The binding of CNA35 contrast agents to collagen fibrils. <i>Chemical Communications</i> , 2011, 47, 1503-1505.	4.1	24
36	Cryo-electron tomography: 3-dimensional imaging of soft matter. <i>Soft Matter</i> , 2011, 7, 17-24.	2.7	54

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37	The role of collagen in bone apatite formation in the presence of hydroxyapatite nucleation inhibitors. <i>Nature Materials</i> , 2010, 9, 1004-1009.	27.5	960
38	Temperature-Responsive Nanospheres with Bicontinuous Internal Structures from a Semicrystalline Amphiphilic Block Copolymer. <i>Journal of the American Chemical Society</i> , 2010, 132, 10256-10259.	13.7	91
39	Uniting Polypeptides with Sequence-Designed Peptides: Synthesis and Assembly of Poly( $\beta$ -benzyl) Tj ETQq1 1 0.784314 rgBT /Overlo 2370-2377.	13.7	57
40	Stabilization of amorphous calcium carbonate by controlling its particle size. <i>Nanoscale</i> , 2010, 2, 2436.	5.6	46
41	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
42	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
43	Mineralized biological materials: A perspective on interfaces and interphases designed over millions of years. <i>Biointerphases</i> , 2006, 1, P12-P14.	1.6	28
44	Mollusk shell formation: Mapping the distribution of organic matrix components underlying a single aragonitic tablet in nacre. <i>Journal of Structural Biology</i> , 2006, 153, 176-187.	2.8	296
45	Mollusk Shell Formation: A Source of New Concepts for Understanding Biomineralization Processes. <i>Chemistry - A European Journal</i> , 2006, 12, 980-987.	3.3	919
46	Unexpected differences between D- and L- tyrosine lead to chiral enhancement in racemic mixtures. <i>Origins of Life and Evolution of Biospheres</i> , 2002, 32, 285-297.	1.9	57
47	Learning lessons from nature – the future of biomimetics: general discussion. <i>Faraday Discussions</i> , 0, 235, 562-568.	3.2	0