James De Yoreo

List of Publications by Year
in descending order

144 papers	11,613 citations	53660 45 h-index	29081 104 g-index
145 all docs	145 docs citations	145 times ranked	12948 citing authors

#	Article	IF	Citations
1	Oriented Crystallization of Hydroxyapatite in Self-Assembled Peptide Fibrils as a Bonelike Material. ACS Biomaterials Science and Engineering, 2023, 9, 1808-1814.	2.6	4
2	Solvent-Driven Transformation of Zn/Cd²⁺-Deoxycholate Assemblies. Inorganic Chemistry, 2022, 61, 1275-1286.	1.9	4
3	Hierarchical Self-Assembly Pathways of Peptoid Helices and Sheets. Biomacromolecules, 2022, 23, 992-1008.	2.6	19
4	Casting a bright light on Ostwaldâ€™s rule of stages. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	4
5	Spiers Memorial Lecture: Assembly-based pathways of crystallization. Faraday Discussions, 2022, 235, 9-35.	1.6	10
6	Particle-based hematite crystallization is invariant to initial particle morphology. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112679119.	3.3	9
7	Radiolysis and Radiation-Driven Dynamics of Boehmite Dissolution Observed by In Situ Liquid-Phase TEM. Environmental Science & Technology, 2022, 56, 5029-5036.	4.6	8
8	Flow behaviors of ellipsoidal suspended particles in porous reservoir rocks using CFD-DEM combined with multi-element particle model. Granular Matter, 2022, 24, 1.	1.1	2
9	Rotational dynamics and transition mechanisms of surface-adsorbed proteins. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2020242119.	3.3	6
10	Impact of Nanoparticle Size and Surface Chemistry on Peptoid Self-Assembly. ACS Nano, 2022, 16, 8095-8106.	7.3	9
11	Amyloid-like amelogenin nanoribbons template mineralization via a low-energy interface of ion binding sites. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2106965119.	3.3	19
12	Molecular Driving Force for Facet Selectivity of Sequence-Defined Amphiphilic Peptoids at Auâ€“Water Interfaces. Journal of Physical Chemistry B, 2022, 126, 5117-5126.	1.2	6
13	Direct Patterning of Perovskite Nanocrystals on Nanophotonic Cavities with Electrohydrodynamic Inkjet Printing. Nano Letters, 2022, 22, 5681-5688.	4.5	15
14	Formation and growth of cerium (III) oxalate nanocrystals by liquid-cell transmission electron microscopy. Scripta Materialia, 2022, 219, 114856.	2.6	5
15	Atomic Force Microscopy-Based Force Spectroscopy and Multiparametric Imaging of Biomolecular and Cellular Systems. Chemical Reviews, 2021, 121, 11701-11725.	23.0	109
16	Engineering Biomolecular Selfâ€Assembly at Solidâ€“Liquid Interfaces. Advanced Materials, 2021, 33, e1905784.	11.1	25
17	Quantifying the Dynamics of Protein Self-Organization Using Deep Learning Analysis of Atomic Force Microscopy Data. Nano Letters, 2021, 21, 158-165.	4.5	17
18	Design of biologically active binary protein 2D materials. Nature, 2021, 589, 468-473.	13.7	85

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19	Structural Characteristics of Amorphous Calcium Sulfate: Evidence to the Role of Water Molecules. Journal of Physical Chemistry C, 2021, 125, 3415-3420.	1.5	19
20	Nanoparticle-Mediated Assembly of Peptoid Nanosheets Functionalized with Solid-Binding Proteins: Designing Heterostructures for Hierarchy. Nano Letters, 2021, 21, 1636-1642.	4.5	31
21	Self-similar mesocrystals form via interface-driven nucleation and assembly. Nature, 2021, 590, 416-422.	13.7	98
22	Highly Bright and Photostable Two-Dimensional Nanomaterials Assembled from Sequence-Defined Peptoids. , 2021, 3, 420-427.		16
23	Disentangling Rotational Dynamics and Ordering Transitions in a System of Self-Organizing Protein Nanorods via Rotationally Invariant Latent Representations. ACS Nano, 2021, 15, 6471-6480.	7.3	19
24	Programmable two-dimensional nanocrystals assembled from POSS-containing peptoids as efficient artificial light-harvesting systems. Science Advances, 2021, 7, .	4.7	20
25	Reply to Comment on â€œA Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowiresâ€• Chemistry of Materials, 2021, 33, 3862-3864.	3.2	1
26	Revealing Au₁₃ as Elementary Clusters During the Early Formation of Au Nanocrystals. Journal of Physical Chemistry Letters, 2021, 12, 5938-5943.	2.1	6
27	Ion-dependent proteinâ€“surface interactions from intrinsic solvent response. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
28	Early-Stage Aggregation and Crystalline Interactions of Peptoid Nanomembranes. Journal of Physical Chemistry Letters, 2021, 12, 6126-6133.	2.1	14
29	Crystallization and Phase Transformations of Aluminum (Oxy)hydroxide Polymorphs in Caustic Aqueous Solution. Inorganic Chemistry, 2021, 60, 9820-9832.	1.9	15
30	Visualizing Solution Structure at Solid-Liquid Interfaces using Three-Dimensional Fast Force Mapping. Journal of Visualized Experiments, 2021, , .	0.2	1
31	Phase Transformation Mechanism of Amorphous Calcium Phosphate to Hydroxyapatite Investigated by Liquid-Cell Transmission Electron Microscopy. Crystal Growth and Design, 2021, 21, 5126-5134.	1.4	29
32	Peptoid-directed assembly of CdSe nanoparticles. Nanoscale, 2021, 13, 1273-1282.	2.8	18
33	Moving beyond the Solvent-Tip Approximation to Determine Site-Specific Variations of Interfacial Water Structure through 3D Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 1282-1291.	1.5	31
34	Hypoxia-Induced LncRNA-MIR210HG Promotes Cancer Progression By Inhibiting HIF-1Î± Degradation in Ovarian Cancer. Frontiers in Oncology, 2021, 11, 701488.	1.3	10
35	No Hydrogen Bonding between Water and Hydrophilic Single Crystal MgO Surfaces?. Journal of Physical Chemistry C, 2021, 125, 26132-26138.	1.5	8
36	Timeâ€averaged serum uric acid and 10â€year incident diabetic kidney disease: A prospective study from China. Journal of Diabetes, 2020, 12, 169-178.	0.8	5

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37	Coupled morphological and structural evolution of Î´-MnO₂ to Î±-MnO₂ through multistage oriented assembly processes: the role of Mn(<scp>iii</scp>). Environmental Science: Nano, 2020, 7, 238-249.	2.2	10
38	Organothiol Monolayer Formation Directly on Muscovite Mica. Angewandte Chemie, 2020, 132, 2343-2347.	1.6	1
39	Organothiol Monolayer Formation Directly on Muscovite Mica. Angewandte Chemie - International Edition, 2020, 59, 2323-2327.	7.2	4
40	Association between kidney function and the risk of cancer: Results from the China Health and Retirement longitudinal study (CHARLS). Journal of Cancer, 2020, 11, 6429-6436.	1.2	16
41	Assembly of a patchy protein into variable 2D lattices via tunable multiscale interactions. Nature Communications, 2020, 11, 3770.	5.8	31
42	Covalently Linked, Two-Dimensional Quantum Dot Assemblies. Langmuir, 2020, 36, 9944-9951.	1.6	4
43	Role of the Solventâ€“Surfactant Duality of Ionic Liquids in Directing Two-Dimensional Particle Assembly. Journal of Physical Chemistry C, 2020, 124, 24215-24222.	1.5	8
44	What atoms do when they get together. Nature Chemistry, 2020, 12, 883-885.	6.6	2
45	Structural evolution of amorphous calcium sulfate nanoparticles into crystalline gypsum phase. CrystEngComm, 2020, 22, 6805-6810.	1.3	15
46	Negatively Charged Lipids Exhibit Negligible Effects on the Water Repellency of Montmorillonite Films. ACS Omega, 2020, 5, 12154-12161.	1.6	2
47	Controlling Metalâ€“Organic Framework/ZnO Heterostructure Kinetics through Selective Ligand Binding to ZnO Surface Steps. Chemistry of Materials, 2020, 32, 6666-6675.	3.2	16
48	Reduction in Serum High-Sensitivity C-Reactive Protein Favors Kidney Outcomes in Patients with Impaired Fasting Glucose or Diabetes. Journal of Diabetes Research, 2020, 2020, 1-7.	1.0	4
49	Two-Dimensional van der Waals Nanoplatelets with Robust Ferromagnetism. Nano Letters, 2020, 20, 2100-2106.	4.5	19
50	Connecting energetics to dynamics in particle growth by oriented attachment using real-time observations. Nature Communications, 2020, 11, 1045.	5.8	74
51	A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires. Chemistry of Materials, 2020, 32, 2753-2763.	3.2	27
52	Visualization of Aluminum Ions at the Mica Water Interface Links Hydrolysis State-to-Surface Potential and Particle Adhesion. Journal of the American Chemical Society, 2020, 142, 6093-6102.	6.6	24
53	Effect of Hydrophilicity and Interfacial Water Structure on Particle Attachment. Journal of Physical Chemistry C, 2020, 124, 5480-5488.	1.5	18
54	Sequenceâ€“Structureâ€“Binding Relationships Reveal Adhesion Behavior of the Car9 Solid-Binding Peptide: An Integrated Experimental and Simulation Study. Journal of the American Chemical Society, 2020, 142, 2355-2363.	6.6	21

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55	Shape-preserving amorphous-to-crystalline transformation of CaCO ₃ revealed by in situ TEM. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3397-3404.	3.3	97
56	Correlating inter-particle forces and particle shape to shear-induced aggregation/fragmentation and rheology for dilute anisotropic particle suspensions: A complementary study via capillary rheometry and in-situ small and ultra-small angle X-ray scattering. Journal of Colloid and Interface Science, 2020, 576, 47-58.	5.0	18
57	Controlling protein assembly on inorganic crystals through designed protein interfaces. Nature, 2019, 571, 251-256.	13.7	85
58	Epitaxial Growth of Gibbsite Sheets on the Basal Surface of Muscovite Mica. Journal of Physical Chemistry C, 2019, 123, 27615-27627.	1.5	10
59	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. Environmental Science & Technology, 2019, 53, 11043-11055.	4.6	42
60	Revisiting the Growth Mechanism of Hierarchical Semiconductor Nanostructures: The Role of Secondary Nucleation in Branch Formation. Journal of Physical Chemistry Letters, 2019, 10, 6827-6834.	2.1	20
61	Joint association of body mass index and central obesity with cardiovascular events and all-cause mortality in prediabetic population: A prospective cohort study. Obesity Research and Clinical Practice, 2019, 13, 453-461.	0.8	9
62	Connecting wettability, topography, and chemistry in a simple lipid-montmorillonite system. Journal of Colloid and Interface Science, 2019, 555, 498-508.	5.0	7
63	Anion Exchange and the Quantum-Cutting Energy Threshold in Ytterbium-Doped CsPb(Cl_{1â€“x}Br_x)₃ Perovskite Nanocrystals. Nano Letters, 2019, 19, 1931-1937.	4.5	114
64	Hierarchical Assembly of Peptoidâ€Based Cylindrical Micelles Exhibiting Efficient Resonance Energy Transfer in Aqueous Solution. Angewandte Chemie - International Edition, 2019, 58, 12223-12230.	7.2	34
65	Joint Charge Storage for Highâ€Rate Aqueous Zincâ€“Manganese Dioxide Batteries. Advanced Materials, 2019, 31, e1900567.	11.1	299
66	Organicâ€“mineral interfacial chemistry drives heterogeneous nucleation of Sr-rich (Ba <sub> x) Tj ETQq0 0 0 rgBT /Overlock 10 T the National Academy of Sciences of the United States of America, 2019, 116, 13221-13226.	3.3	45
67	Self-Assembling 2D Arrays with de Novo Protein Building Blocks. Journal of the American Chemical Society, 2019, 141, 8891-8895.	6.6	37
68	Contrasting Chemistry of Block Copolymer Films Controls the Dynamics of Protein Self-Assembly at the Nanoscale. ACS Nano, 2019, 13, 4018-4027.	7.3	16
69	Purification of lactoperoxidase from bovine milk by integrating the technique of salting-out extraction with cation exchange chromatographic separation. Journal of Food Measurement and Characterization, 2019, 13, 1400-1410.	1.6	5
70	Synthesis of 2D Hexagonal Hematite Nanosheets and the Crystal Growth Mechanism. Inorganic Chemistry, 2019, 58, 16727-16735.	1.9	32
71	Addressing some of the technical challenges associated with liquid phase S/TEM studies of particle nucleation, growth and assembly. Micron, 2019, 118, 35-42.	1.1	24
72	Direct Observation of the Orientational Anisotropy of Buried Hydroxyl Groups inside Muscovite Mica. Journal of the American Chemical Society, 2019, 141, 2135-2142.	6.6	23

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73	Peptide-Based Bioinspired Approach to Regrowing Multilayered Aprismatic Enamel. ACS Omega, 2018, 3, 2546-2557.	1.6	53
74	Supersaturated calcium carbonate solutions are classical. Science Advances, 2018, 4, eaao6283.	4.7	116
75	Defect-Free Encapsulation of Fe⁰ in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. Journal of the American Chemical Society, 2018, 140, 1737-1742.	6.6	124
76	In Situ TEM and AFM Investigation of Morphological Controls during the Growth of Single Crystal BaWO₄. Crystal Growth and Design, 2018, 18, 1367-1375.	1.4	20
77	De novo design of self-assembling helical protein filaments. Science, 2018, 362, 705-709.	6.0	112
78	Membranes: Carbon Nanotube Porins in Amphiphilic Block Copolymers as Fully Synthetic Mimics of Biological Membranes (Adv. Mater. 51/2018). Advanced Materials, 2018, 30, 1870392.	11.1	0
79	Building two-dimensional materials one row at a time: Avoiding the nucleation barrier. Science, 2018, 362, 1135-1139.	6.0	155
80	Control of Calcium Phosphate Nucleation and Transformation through Interactions of Enamelin and Amelogenin Exhibits the â€œGoldilocks Effectâ€• Crystal Growth and Design, 2018, 18, 7391-7400.	1.4	29
81	Determination of DNA based on fluorescence quenching of terbium doped carbon dots. Mikrochimica Acta, 2018, 185, 514.	2.5	14
82	Effects of Ionic Strength, Salt, and pH on Aggregation of Boehmite Nanocrystals: Tumbler Small-Angle Neutron and X-ray Scattering and Imaging Analysis. Langmuir, 2018, 34, 15839-15853.	1.6	25
83	Carbon Nanotube Porins in Amphiphilic Block Copolymers as Fully Synthetic Mimics of Biological Membranes. Advanced Materials, 2018, 30, e1803355.	11.1	29
84	Impact of Solution Chemistry and Particle Anisotropy on the Collective Dynamics of Oriented Aggregation. ACS Nano, 2018, 12, 10114-10122.	7.3	40
85	Accessing crystalâ€“crystal interaction forces with oriented nanocrystal atomic force microscopy probes. Nature Protocols, 2018, 13, 2005-2030.	5.5	12
86	Numerical Simulation of Residual Oil Flooded by Polymer Solution in Microchannels. Geofluids, 2018, 2018, 1-10.	0.3	5
87	Dynamically resolved self-assembly of S-layer proteins on solid surfaces. Chemical Communications, 2018, 54, 10264-10267.	2.2	17
88	Controlled synthesis of highly-branched plasmonic gold nanoparticles through peptoid engineering. Nature Communications, 2018, 9, 2327.	5.8	74
89	Near surface nucleation and particle mediated growth of colloidal Au nanocrystals. Nanoscale, 2018, 10, 11907-11912.	2.8	48
90	Nanoparticle Immobilization for Controllable Experiments in Liquid-Cell Transmission Electron Microscopy. ACS Applied Materials & Interfaces, 2018, 10, 22801-22808.	4.0	18

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91	Trace Uranium Partitioning in a Multiphase Nano-FeOOH System. Environmental Science & Technology, 2017, 51, 4970-4977.	4.6	44
92	Tuning crystallization pathways through sequence engineering of biomimetic polymers. Nature Materials, 2017, 16, 767-774.	13.3	116
93	Direction-specific van der Waals attraction between rutile TiO ₂ nanocrystals. Science, 2017, 356, 434-437.	6.0	103
94	Direct Visualization of Aggregate Morphology and Dynamics in a Model Soil Organicâ€“Mineral System. Environmental Science and Technology Letters, 2017, 4, 186-191.	3.9	18
95	Direction-specific interaction forces underlying zinc oxide crystal growth by oriented attachment. Nature Communications, 2017, 8, 835.	5.8	80
96	Developing a molecular picture of soil organic matterâ€“mineral interactions by quantifying organoâ€“mineral binding. Nature Communications, 2017, 8, 396.	5.8	150
97	A classical view on nonclassical nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7882-E7890.	3.3	181
98	Using Biomimetic Polymers in Place of Noncollagenous Proteins to Achieve Functional Remineralization of Dentin Tissues. ACS Biomaterials Science and Engineering, 2017, 3, 3469-3479.	2.6	30
99	A holistic view of nucleation and self-assembly. MRS Bulletin, 2017, 42, 525-536.	1.7	20
100	Trends in micaâ€“mica adhesion reflect the influence of molecular details on long-range dispersion forces underlying aggregation and coalignment. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7537-7542.	3.3	56
101	Integrated analysis of 454 and Illumina transcriptomic sequencing characterizes carbon flux and energy source for fatty acid synthesis in developing Lindera glauca fruits for woody biodiesel. Biotechnology for Biofuels, 2017, 10, 134.	6.2	27
102	A Mesocrystalâ€Like Morphology Formed by Classical Polymerâ€Mediated Crystal Growth. Advanced Functional Materials, 2017, 27, 1701658.	7.8	12
103	Self-Repair: Self-Repair and Patterning of 2D Membrane-Like Peptoid Materials (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	7.8	1
104	Polyaspartic acid facilitates oxolation within iron(<scp>iii</scp>) oxide pre-nucleation clusters and drives the formation of organic-inorganic composites. Journal of Chemical Physics, 2016, 145, 211917.	1.2	13
105	The energetics of prenucleation clusters in lattice solutions. Journal of Chemical Physics, 2016, 145, 211921.	1.2	13
106	Double Epitaxy as a Paradigm for Templated Growth of Highly Ordered Three-Dimensional Mesophase Crystals. ACS Nano, 2016, 10, 8670-8675.	7.3	2
107	A Microkinetic Model of Calcite Step Growth. Angewandte Chemie - International Edition, 2016, 55, 11086-11090.	7.2	24
108	Selfâ€Repair and Patterning of 2D Membraneâ€Like Peptoid Materials. Advanced Functional Materials, 2016, 26, 8960-8967.	7.8	50

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109	Integrated mRNA and miRNA transcriptome reveal a cross-talk between developing response and hormone signaling for the seed kernels of Siberian apricot. Scientific Reports, 2016, 6, 35675.	1.6	23
110	Investigating materials formation with liquid-phase and cryogenic TEM. Nature Reviews Materials, 2016, 1, .	23.3	153
111	Matrix metalloproteinase-20 mediates dental enamel biomineralization by preventing protein occlusion inside apatite crystals. Biomaterials, 2016, 75, 260-270.	5.7	46
112	Synthesis of highly nanoporous YBO₃ architecture via a coâ€precipitation approach and tunable luminescent properties. Scanning, 2015, 37, 277-283.	0.7	4
113	Sequence-Defined Energetic Shifts Control the Disassembly Kinetics and Microstructure of Amelogenin Adsorbed onto Hydroxyapatite (100). Langmuir, 2015, 31, 10451-10460.	1.6	24
114	Effect of Otoconial Proteins Fetuin A, Osteopontin, and Otoconin 90 on the Nucleation and Growth of Calcite. Crystal Growth and Design, 2015, 15, 129-136.	1.4	13
115	Calcium carbonate nucleation driven by ion binding in a biomimetic matrix revealed by in situ electron microscopy. Nature Materials, 2015, 14, 394-399.	13.3	353
116	Crystallization by particle attachment in synthetic, biogenic, and geologic environments. Science, 2015, 349, aaa6760.	6.0	1,467
117	Energetic basis for the molecular-scale organization of bone. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 326-331.	3.3	60
118	Applications of Mass Spectrometry to Structural Analysis of Marine Oligosaccharides. Marine Drugs, 2014, 12, 4005-4030.	2.2	32
119	Self-Assembly of Collagen on Flat Surfaces: The Interplay of Collagenâ€“Collagen and Collagenâ€“Substrate Interactions. Langmuir, 2014, 30, 1343-1350.	1.6	40
120	Kinetics of crystal growth of nanogoethite in aqueous solutions containing nitrate and sulfate anions. CrystEngComm, 2014, 16, 1466-1471.	1.3	18
121	Investigating Processes of Nanocrystal Formation and Transformation via Liquid Cell TEM. Microscopy and Microanalysis, 2014, 20, 425-436.	0.2	94
122	A Unified Description of Attachment-Based Crystal Growth. ACS Nano, 2014, 8, 6526-6530.	7.3	121
123	In situ TEM imaging of CaCO ₃ nucleation reveals coexistence of direct and indirect pathways. Science, 2014, 345, 1158-1162.	6.0	584
124	Reconciling disparate views of template-directed nucleation through measurement of calcite nucleation kinetics and binding energies. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1304-1309.	3.3	122
125	Direct observation of kinetic traps associated with structural transformations leading to multiple pathways of S-layer assembly. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12968-12973.	3.3	77
126	Interpreting the widespread nonlinear force spectra of intermolecular bonds. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13573-13578.	3.3	270

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127	Direction-Specific Interactions Control Crystal Growth by Oriented Attachment. Science, 2012, 336, 1014-1018.	6.0	958
128	Self-catalyzed growth of S layers via an amorphous-to-crystalline transition limited by folding kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16536-16541.	3.3	160
129	Subnanometer atomic force microscopy of peptideâ€“mineral interactions links clustering and competition to acceleration and catastrophe. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11-15.	3.3	99
130	A new watermarking approach based on BP network in wavelet domain. , 2010, , .		0
131	Rethinking Classical Crystal Growth Models through Molecular Scale Insights: Consequences of Kink-Limited Kinetics. Crystal Growth and Design, 2009, 9, 5135-5144.	1.4	162
132	Peptide Controls on Calcite Mineralization:â€‰ Polyaspartate Chain Length Affects Growth Kinetics and Acts as a Stereochemical Switch on Morphology. Crystal Growth and Design, 2006, 6, 197-201.	1.4	158
133	Molecular modulation of calcium oxalate crystallization. American Journal of Physiology - Renal Physiology, 2006, 291, F1123-F1132.	1.3	80
134	Mechanisms of classical crystal growth theory explain quartz and silicate dissolution behavior. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15357-15362.	3.3	254
135	Molecular modulation of calcium oxalate crystallization by osteopontin and citrate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1811-1815.	3.3	258
136	Crystallization of Paracetamol under Oscillatory Flow Mixing Conditions. Crystal Growth and Design, 2004, 4, 1045-1052.	1.4	44
137	MATERIALS SCIENCE: Shaping Crystals with Biomolecules. Science, 2004, 306, 1301-1302.	6.0	174
138	Morphological consequences of differential Mg²⁺incorporation at structurally distinct steps on calcite. American Mineralogist, 2004, 89, 714-720.	0.9	145
139	Principles of Crystal Nucleation and Growth. Reviews in Mineralogy and Geochemistry, 2003, 54, 57-93.	2.2	883
140	The Role of Mg2+ as an Impurity in Calcite Growth. Science, 2000, 290, 1134-1137.	6.0	638
141	Recovery of surfaces from impurity poisoning during crystal growth. Nature, 1999, 399, 442-445.	13.7	221
142	Mechanisms of Protein Crystal Growth: An Atomic Force Microscopy Study of Canavalin Crystallization. Physical Review Letters, 1995, 75, 2774-2777.	2.9	124
143	Particle-Based Crystallization. ACS Symposium Series, 0, , 37-73.	0.5	1
144	Nonclassical Crystallization Pathways in Biomolecular Self-Assembly. ACS Symposium Series, 0, , 89-103.	0.5	0