

Daniel E Morse

List of Publications by Year in descending order

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38
papers

3,721
citations

361296

20
h-index

330025

37
g-index

43
all docs

43
docs citations

43
times ranked

3815
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanistic origin of the toughness of natural adhesives, fibres and composites. <i>Nature</i> , 1999, 399, 761-763.	13.7	1,153
2	Biomimetic synthesis of ordered silica structures mediated by block copolypeptides. <i>Nature</i> , 2000, 403, 289-292.	13.7	672
3	Bone indentation recovery time correlates with bond reforming time. <i>Nature</i> , 2001, 414, 773-776.	13.7	440
4	Efficient Catalysis of Polysiloxane Synthesis by Silicatein Requires Specific Hydroxy and Imidazole Functionalities. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 779-782.	7.2	217
5	Biocatalytically Templated Synthesis of Titanium Dioxide. <i>Chemistry of Materials</i> , 2003, 15, 4804-4809.	3.2	207
6	Effects of Laminate Architecture on Fracture Resistance of Sponge Biosilica: Lessons from Nature. <i>Advanced Functional Materials</i> , 2008, 18, 1241-1248.	7.8	132
7	Aragonite [→] Hydroxyapatite Conversion in Gastropod (Abalone) Nacre. <i>Chemistry of Materials</i> , 1998, 10, 3813-3824.	3.2	109
8	Membrane invaginations facilitate reversible water flux driving tunable iridescence in a dynamic biophotonic system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2552-2556.	3.3	103
9	The role of protein assembly in dynamically tunable bio-optical tissues. <i>Biomaterials</i> , 2010, 31, 793-801.	5.7	90
10	Changes in reflectin protein phosphorylation are associated with dynamic iridescence in squid. <i>Journal of the Royal Society Interface</i> , 2010, 7, 549-560.	1.5	66
11	Expression of a <i>Scr/Hox5</i> gene in the larval central nervous system of the gastropod <i>Haliothis</i> , a non-segmented spiralian lophotrochozoan. <i>Evolution & Development</i> , 2000, 2, 294-302.	1.1	52
12	Dynamic biophotonics: female squid exhibit sexually dimorphic tunable leucophores and iridocytes. <i>Journal of Experimental Biology</i> , 2013, 216, 3733-3741.	0.8	51
13	Structures, Organization, and Function of Reflectin Proteins in Dynamically Tunable Reflective Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 15238-15249.	1.6	48
14	Cyclable Condensation and Hierarchical Assembly of Metastable Reflectin Proteins, the Drivers of Tunable Biophotonics. <i>Journal of Biological Chemistry</i> , 2016, 291, 4058-4068.	1.6	46
15	Muscle-specific regulation of tropomyosin gene expression and myofibrillogenesis differs among muscle systems examined at metamorphosis of the gastropod <i>Haliothis rufescens</i> . <i>Development Genes and Evolution</i> , 1997, 206, 464-471.	0.4	40
16	Optical parameters of the tunable Bragg reflectors in squid. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130386.	1.5	37
17	Unifying Design Strategies in Demosponge and Hexactinellid Skeletal Systems. <i>Journal of Adhesion</i> , 2010, 86, 72-95.	1.8	36
18	Structure-Function Studies of the Lustrin A Polyelectrolyte Domains, RKS _Y and D ₄ . <i>Connective Tissue Research</i> , 2003, 44, 10-15.	1.1	31

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19	Molecular mechanism of reflectin's tunable biophotonic control: Opportunities and limitations for new optoelectronics. <i>APL Materials</i> , 2017, 5, .	2.2	27
20	Calibration between trigger and color: Neutralization of a genetically encoded coulombic switch and dynamic arrest precisely tune reflectin assembly. <i>Journal of Biological Chemistry</i> , 2019, 294, 16804-16815.	1.6	25
21	Wavelength-specific forward scattering of light by Bragg-reflective iridocytes in giant clams. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160285.	1.5	22
22	A Mox homeobox gene in the gastropod mollusc <i>Haliotis rufescens</i> differentially expressed during larval morphogenesis and metamorphosis. <i>FEBS Letters</i> , 1997, 411, 119-122.	1.3	19
23	Biotechnology Reveals New Routes to Synthesis and Structural Control of Silica and Polysilsesquioxanes. , 0, , 805-819.		12
24	Reflectin needs its intensity amplifier: Realizing the potential of tunable structural biophotonics. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	9
25	Unusual Evolution of Ceria Nanocrystal Morphologies Promoted by a Low-Temperature Vapor Diffusion Based Process. <i>Crystal Growth and Design</i> , 2010, 10, 4485-4490.	1.4	8
26	Integrate-and-fire models of insolation-driven entrainment of broadcast spawning in corals. <i>Theoretical Ecology</i> , 2011, 4, 69-85.	0.4	8
27	Reflectin Proteins Bind and Reorganize Synthetic Phospholipid Vesicles. <i>Langmuir</i> , 2020, 36, 2673-2682.	1.6	7
28	Vesicular hydrogen silsesquioxane-mediated synthesis of nanocrystalline silicon dispersed in a mesoporous silica/suboxide matrix, with potential for electrochemical applications. <i>New Journal of Chemistry</i> , 2015, 39, 621-630.	1.4	6
29	Bio-inspired Synthesis of High-performance Nanocomposite Catalysts for Hydrogen Oxidation. <i>Advanced Functional Materials</i> , 2013, 23, 4585-4592.	7.8	5
30	Electrochemistry as a surrogate for protein phosphorylation: voltage-controlled assembly of reflectin A1. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200774.	1.5	5
31	Angle-dependent light scattering by highly uniform colloidal rod-shaped microparticles: Experiment and simulation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1889-1895.	2.4	3
32	Inside Front Cover: Effects of Laminate Architecture on Fracture Resistance of Sponge Biosilica: Lessons from Nature (<i>Adv. Funct. Mater.</i> 8/2008). <i>Advanced Functional Materials</i> , 2008, 18, 1146-1146.	7.8	2
33	Progressive transition from resonant to diffuse reflection in anisotropic colloidal films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 611-617.	2.4	2
34	Low Voltage Voltammetry Probes Proton Dissociation Equilibria of Amino Acids and Peptides. <i>Analytical Chemistry</i> , 2022, 94, 4948-4953.	3.2	2
35	High-rate Continuous Synthesis of Nanocrystalline Perovskites and Metal Oxides in a Colliding Vapor Stream of Microdroplets. <i>Advanced Functional Materials</i> , 2014, 24, 1275-1282.	7.8	1
36	Structure-Function Studies of the Lustrin A Polyelectrolyte Domains, RKS Y and D4. <i>Connective Tissue Research</i> , 2003, 44, 10-15.	1.1	1

#	ARTICLE	IF	CITATIONS
37	Enhancing light extraction from III-nitride devices using moth-eye nanostructures formed by colloidal lithography. , 2016, , .		0
38	Initially Disordered, Reflectin Assembly Tunably and Reversibly Drives Biophotonic Color. FASEB Journal, 2018, 32, .	0.2	0