

Jeremiah J Gassensmith

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,738
citations

159358

30
h-index

106150

65
g-index

122
all docs

122
docs citations

122
times ranked

5958
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Frameworks from Edible Natural Products. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8630-8634.	7.2	568
2	Strong and Reversible Binding of Carbon Dioxide in a Green Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2011, 133, 15312-15315.	6.6	346
3	Nanoporous Carbohydrate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2012, 134, 406-417.	6.6	271
4	Storable, thermally activated, near-infrared chemiluminescent dyes and dye-stained microparticles for optical imaging. <i>Nature Chemistry</i> , 2010, 2, 1025-1030.	6.6	247
5	Biodegradable 3D printed polymer microneedles for transdermal drug delivery. <i>Lab on A Chip</i> , 2018, 18, 1223-1230.	3.1	219
6	A Metal-Organic Framework-Based Material for Electrochemical Sensing of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2014, 136, 8277-8282.	6.6	218
7	Metal-Organic Frameworks for Cell and Virus Biology: A Perspective. <i>ACS Nano</i> , 2018, 12, 13-23.	7.3	214
8	Discovery and early development of squaraine rotaxanes. <i>Chemical Communications</i> , 2009, , 6329.	2.2	207
9	Chromatography in a Single Metal-Organic Framework (MOF) Crystal. <i>Journal of the American Chemical Society</i> , 2010, 132, 16358-16361.	6.6	192
10	Self-Assembly of Fluorescent Inclusion Complexes in Competitive Media Including the Interior of Living Cells. <i>Journal of the American Chemical Society</i> , 2007, 129, 15054-15059.	6.6	140
11	Direct Calorimetric Measurement of Enthalpy of Adsorption of Carbon Dioxide on CD-MOF-2, a Green Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2013, 135, 6790-6793.	6.6	140
12	Squaraine Rotaxane as a Reversible Optical Chloride Sensor. <i>Chemistry - A European Journal</i> , 2010, 16, 2916-2921.	1.7	136
13	Enhanced Stability and Controlled Delivery of MOF-Encapsulated Vaccines and Their Immunogenic Response In Vivo. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9740-9746.	4.0	126
14	Solution-Phase Mechanistic Study and Solid-State Structure of a Tris(bipyridinium radical cation) Inclusion Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 3061-3072.	6.6	123
15	Template-Directed Synthesis of Porous and Protective Core-Shell Bionanoparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10691-10696.	7.2	118
16	ZIF-8 degrades in cell media, serum, and some—but not all—common laboratory buffers. <i>Supramolecular Chemistry</i> , 2019, 31, 485-490.	1.5	100
17	Investigation of Controlled Growth of Metal-Organic Frameworks on Anisotropic Virus Particles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18161-18169.	4.0	83
18	Imprinting Chemical and Responsive Micropatterns into Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 276-279.	7.2	68

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19	Synthesis and Photophysical Investigation of Squaraine Rotaxanes by "Clicked Capping". <i>Organic Letters</i> , 2008, 10, 3343-3346.	2.4	67
20	Polyporous Metal-Coordination Frameworks. <i>Organic Letters</i> , 2012, 14, 1460-1463.	2.4	47
21	Donor-acceptor molecular figures-of-eight. <i>Chemical Communications</i> , 2011, 47, 11870.	2.2	44
22	Viral chemistry: the chemical functionalization of viral architectures to create new technology. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 512-534.	3.3	42
23	Dual Functionalized Bacteriophage Q β as a Photocaged Drug Carrier. <i>Small</i> , 2016, 12, 4563-4571.	5.2	39
24	Nitroxyl Modified Tobacco Mosaic Virus as a Metal-Free High-Relaxivity MRI and EPR Active Superoxide Sensor. <i>Molecular Pharmaceutics</i> , 2018, 15, 2973-2983.	2.3	39
25	Self-Assembly of a [2]Pseudorota[3]catenane in Water. <i>Journal of the American Chemical Society</i> , 2012, 134, 17007-17010.	6.6	38
26	Protein-Polymer Delivery: Chemistry from the Cold Chain to the Clinic. <i>Bioconjugate Chemistry</i> , 2018, 29, 2867-2883.	1.8	38
27	Metal-Organic Framework Encapsulated Whole-Cell Vaccines Enhance Humoral Immunity against Bacterial Infection. <i>ACS Nano</i> , 2021, 15, 17426-17438.	7.3	37
28	Thermo-mechanically responsive crystalline organic cantilever. <i>Chemical Communications</i> , 2017, 53, 9890-9893.	2.2	35
29	Supramolecular Encapsulation of Small-Ultrared Fluorescent Proteins in Virus-Like Nanoparticles for Noninvasive In Vivo Imaging Agents. <i>Bioconjugate Chemistry</i> , 2020, 31, 1529-1536.	1.8	35
30	Stabilization of supramolecular membrane protein-lipid bilayer assemblies through immobilization in a crystalline exoskeleton. <i>Nature Communications</i> , 2021, 12, 2202.	5.8	35
31	Molecular Hyperthermia: Spatiotemporal Protein Unfolding and Inactivation by Nanosecond Plasmonic Heating. <i>Small</i> , 2017, 13, 1700841.	5.2	34
32	Growth of ZIF-8 on molecularly ordered 2-methylimidazole/single-walled carbon nanotubes to form highly porous, electrically conductive composites. <i>Chemical Science</i> , 2019, 10, 737-742.	3.7	34
33	Supramolecular and biomacromolecular enhancement of metal-free magnetic resonance imaging contrast agents. <i>Chemical Science</i> , 2020, 11, 2045-2050.	3.7	34
34	Template-Directed Synthesis of Porous and Protective Core-Shell Bionanoparticles. <i>Angewandte Chemie</i> , 2016, 128, 10849-10854.	1.6	33
35	Hierarchical Porous Carbon Arising from Metal-Organic Framework-Encapsulated Bacteria and Its Energy Storage Potential. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11884-11889.	4.0	33
36	Photothermal Phage: A Virus-Based Photothermal Therapeutic Agent. <i>Journal of the American Chemical Society</i> , 2021, 143, 16428-16438.	6.6	33

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37	Microcontact Click Printing for Templating Ultrathin Films of Metal-Organic Frameworks. <i>Langmuir</i> , 2011, 27, 1341-1345.	1.6	31
38	A biopolymer-based 3D printable hydrogel for toxic metal adsorption from water. <i>Polymer International</i> , 2019, 68, 964-971.	1.6	31
39	Site-Selective Nucleation and Size Control of Gold Nanoparticle Photothermal Antennae on the Pore Structures of a Virus. <i>Journal of the American Chemical Society</i> , 2018, 140, 17226-17233.	6.6	30
40	Rapidly Reversible Organic Crystalline Switch for Conversion of Heat into Mechanical Energy. <i>Journal of the American Chemical Society</i> , 2021, 143, 5951-5957.	6.6	29
41	Macrocyclic Breathing in [2]Rotaxanes with Tetralactam Macrocycles. <i>Journal of Organic Chemistry</i> , 2011, 76, 688-691.	1.7	26
42	Cycloaddition to an anthracene-derived macrocyclic receptor with supramolecular control of regioselectivity. <i>Chemical Communications</i> , 2009, , 2517.	2.2	25
43	Stereochemistry of Molecular Figures-of-Eight. <i>Chemistry - A European Journal</i> , 2012, 18, 10312-10323.	1.7	24
44	Supramolecular Reinforcement of a Large-Pore 2D Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2022, 144, 2468-2473.	6.6	24
45	Effect of stopper size on squaraine rotaxane stability. <i>Supramolecular Chemistry</i> , 2009, 21, 118-124.	1.5	22
46	Rock the nucleus: significantly enhanced nuclear membrane permeability and gene transfection by plasmonic nanobubble induced nanomechanical transduction. <i>Chemical Communications</i> , 2018, 54, 2479-2482.	2.2	19
47	The thermo-responsive behavior in molecular crystals of naphthalene diimides and their 3D printed thermochromic composites. <i>CrystEngComm</i> , 2018, 20, 6054-6060.	1.3	19
48	Fluorescent Functionalization across Quaternary Structure in a Virus-like Particle. <i>Bioconjugate Chemistry</i> , 2017, 28, 2277-2283.	1.8	17
49	A New Class of Hydroxy-Substituted Squaraine Rotaxane. <i>Australian Journal of Chemistry</i> , 2010, 63, 792.	0.5	14
50	Patterned Assembly of Quantum Dots onto Surfaces Modified with Click Microcontact Printing. <i>Advanced Materials</i> , 2013, 25, 223-226.	11.1	14
51	Biomaterials and nanomaterials for sustained release vaccine delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1735.	3.3	14
52	Zeolitic Imidazolate Framework Nanoencapsulation of CpG for Stabilization and Enhancement of Immunoadjuvancy. <i>ACS Applied Nano Materials</i> , 2022, 5, 13697-13704.	2.4	14
53	Strong π -stacking causes unusually large anisotropic thermal expansion and thermochromism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
54	Regulating the Uptake of Viral Nanoparticles in Macrophage and Cancer Cells via a pH Switch. <i>Molecular Pharmaceutics</i> , 2018, 15, 2984-2990.	2.3	11

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55	Virus like particles: fundamental concepts, biological interactions, and clinical applications. , 2020, , 153-174.		10
56	The Chemistry of Confined Spaces. Current Organic Chemistry, 2014, 18, 2002-2009.	0.9	10
57	Synthesis of Metal-Organic Frameworks on Tobacco Mosaic Virus Templates. Methods in Molecular Biology, 2018, 1798, 95-108.	0.4	7
58	Virus-like particles: a self-assembled toolbox for cancer therapy. Materials Today Chemistry, 2022, 24, 100808.	1.7	7
59	Using FRET to measure the time it takes for a cell to destroy a virus. Nanoscale, 2020, 12, 9124-9132.	2.8	6
60	Identification and physical characterization of a spontaneous mutation of the tobacco mosaic virus in the laboratory environment. Scientific Reports, 2021, 11, 15109.	1.6	5
61	Crossing the threshold from accelerated substitution to elimination with a bifunctional macrocycle. New Journal of Chemistry, 2008, 32, 843.	1.4	4
62	Cover Picture: Metal-Organic Frameworks from Edible Natural Products (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	7.2	3
63	Making Conjugation-induced Fluorescent PEGylated Virus-like Particles by Dibromomaleimide-disulfide Chemistry. Journal of Visualized Experiments, 2018, , .	0.2	3
64	Expanding Inclusivity with Learner-Generated Study Aids in Three Different Science Courses. Journal of Chemical Education, 2021, 98, 3379-3383.	1.1	2
65	Titelbild: Metal-Organic Frameworks from Edible Natural Products (Angew. Chem. 46/2010). Angewandte Chemie, 2010, 122, 8715-8715.	1.6	0
66	Thermoplasmonics: Molecular Hyperthermia: Spatiotemporal Protein Unfolding and Inactivation by Nanosecond Plasmonic Heating (Small 36/2017). Small, 2017, 13, .	5.2	0
67	Thermo-mechanical responsive crystalline organic semiconductor. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, a262-a262.	0.0	0
68	MOF vaccines " decreasing the dependency on refrigerated transport. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, a317-a317.	0.0	0
69	Metal-Organic Framework Enhanced Cellular and Humoral Immune Response Against Sepsis Causing Infection. ECS Meeting Abstracts, 2020, MA2020-02, 2031-2031.	0.0	0
70	(Keynote) Biomimetic Preservation of Protein and Cell Surface Markers with Metal-Organic Frameworks for Controlled Protein Delivery and Room Temperature Storage and Shipping. ECS Meeting Abstracts, 2020, MA2020-02, 2029-2029.	0.0	0