

Hicham Fenniri

List of Publications by Year in descending order

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118
papers

4,531
citations

87888

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110387

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122
all docs

122
docs citations

122
times ranked

5172
citing authors

#	ARTICLE	IF	CITATIONS
1	Size Selective Corona Interactions from Self-Assembled Rosette and Single-Walled Carbon Nanotubes. Small, 2022, 18, e2104951.	10.0	2
2	Advances in cancer theranostics using organic-inorganic hybrid nanotechnology. Applied Materials Today, 2021, 23, 101003.	4.3	28
3	Rosette Nanotube Porins as Ion Selective Transporters and Single-Molecule Sensors. Journal of the American Chemical Society, 2020, 142, 1680-1685.	13.7	19
4	Editorial: Supramolecular Nanomaterials for Engineering, Drug Delivery, and Medical Applications. Frontiers in Chemistry, 2020, 8, 626468.	3.6	6
5	Three-Dimensional Printing Biologically Inspired DNA-Based Gradient Scaffolds for Cartilage Tissue Regeneration. ACS Applied Materials & Interfaces, 2020, 12, 33219-33228.	8.0	57
6	Cellular Delivery of Plasmid DNA into Wheat Microspores Using Rosette Nanotubes. ACS Omega, 2020, 5, 24422-24433.	3.5	10
7	Computational Modeling for Biomimetic Sensors. Methods in Molecular Biology, 2019, 2027, 195-210.	0.9	4
8	Zinc oxide end-capped Fe ₃ O ₄ @mSiO ₂ core-shell nanocarriers as targeted and responsive drug delivery system for chemo-/ions synergistic therapeutics. Drug Delivery, 2019, 26, 732-743.	5.7	18
9	Enhanced antibiotic activity of ampicillin conjugated to gold nanoparticles on PEGylated rosette nanotubes. International Journal of Nanomedicine, 2019, Volume 14, 7281-7289.	6.7	38
10	A Barcoded Polymer-Based Cross-Reactive Spectroscopic Sensor Array for Organic Volatiles. Sensors, 2019, 19, 3683.	3.8	4
11	Stimuli-responsive hydrogels for manipulation of cell microenvironment: From chemistry to biofabrication technology. Progress in Polymer Science, 2019, 98, 101147.	24.7	120
12	3D Printed scaffolds with hierarchical biomimetic structure for osteochondral regeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 19, 58-70.	3.3	49
13	Sensor arrays from spectroscopically-encoded polymers: Towards an affordable diagnostic device for biomolecules. Sensors and Actuators B: Chemical, 2019, 288, 332-336.	7.8	9
14	Cross-Reactive, Self-Encoded Polymer Film Arrays for Sensor Applications. Methods in Molecular Biology, 2019, 2027, 1-13.	0.9	0
15	Bioactive Organic Rosette Nanotubes Support Sensory Neurite Outgrowth. ACS Biomaterials Science and Engineering, 2018, 4, 1630-1640.	5.2	4
16	Electroconductive Gelatin Methacryloyl-PEDOT:PSS Composite Hydrogels: Design, Synthesis, and Properties. ACS Biomaterials Science and Engineering, 2018, 4, 1558-1567.	5.2	75
17	Organic Photovoltaics with Stacked Graphene Anodes. ACS Applied Energy Materials, 2018, 1, 17-21.	5.1	11
18	Synthesis of N-Bridged Pyrido[4,3-d]pyrimidines and Self-Assembly into Twin Rosette Cages and Nanotubes in Organic Media. Scientific Reports, 2018, 8, 15949.	3.3	5

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19	Artificial Nose Technology: Status and Prospects in Diagnostics. Trends in Biotechnology, 2017, 35, 33-42.	9.3	76
20	Cutting Edge Methods for Non-Invasive Disease Diagnosis Using E-Tongue and E-Nose Devices. Biosensors, 2017, 7, 59.	4.7	40
21	AuCu@Pt Nanoalloys for Catalytic Application in Reduction of 4-Nitrophenol. Journal of Spectroscopy, 2016, 2016, 1-8.	1.3	18
22	Encapsulation of ferrocene by self-assembled rosette nanotubes: An investigation using statistical mechanical theory of molecular liquids. Journal of Molecular Liquids, 2016, 217, 70-74.	4.9	3
23	The effects of rosette nanotubes with different functionalizations on channel catfish (<i>Ictalurus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.3	4
24	High Field Solid-State NMR Spectroscopy Investigation of ¹⁵ N-Labeled Rosette Nanotubes: Hydrogen Bond Network and Channel-Bound Water. Journal of the American Chemical Society, 2016, 138, 6115-6118.	13.7	22
25	Molecular and supramolecular chemistry of rosette nanotubes. RSC Advances, 2016, 6, 75820-75838.	3.6	40
26	Cross-reactive, self-encoded polymer film arrays for sensor applications. RSC Advances, 2016, 6, 82616-82624.	3.6	5
27	Fluorescent Rosette Nanotubes from the C-analogue of the Guanine-Cytosine (G ⁺ SC) Motif. Materials Research Society Symposia Proceedings, 2015, 1796, 1-6.	0.1	1
28	Nanomaterial-based barcodes. Nanoscale, 2015, 7, 11240-11247.	5.6	55
29	Functionalized Rosette Nanotubes as Novel Electron Donor Materials for Solution-Processed Organic Photovoltaics. Materials Research Society Symposia Proceedings, 2015, 1737, 1.	0.1	4
30	Rosette Nanotubes Alter IgE-Mediated Degranulation in the Rat Basophilic Leukemia (RBL)-2H3 Cell Line. Toxicological Sciences, 2015, 148, 108-120.	3.1	8
31	Selective cytotoxicity of curcumin loaded twin-base linker rosette nanotubes towards osteosarcoma than healthy osteoblasts. , 2014, , .		0
32	Self-assembled rosette nanotubes and poly(2-hydroxyethyl methacrylate) hydrogels promote skin cell functions. Journal of Biomedical Materials Research - Part A, 2014, 102, 3446-3451.	4.0	16
33	Chromers: conformation-driven mirror-image supramolecular chirality isomerism identified in a new class of helical rosette nanotubes. Nanoscale, 2014, 6, 9421-9427.	5.6	23
34	Molecular Imaging of Self-Assembled Rosette Nanotubes by Scanning Tunneling Microscopy. Microscopy and Microanalysis, 2014, 20, 2080-2081.	0.4	1
35	Widespread Nanoparticle-Assay Interference: Implications for Nanotoxicity Testing. PLoS ONE, 2014, 9, e90650.	2.5	225
36	Synthesis of N-substituted Pyrido[4,3- <i>d</i>]pyrimidines for the Large-Scale Production of Self-Assembled Rosettes and Nanotubes. Journal of Organic Chemistry, 2013, 78, 11421-11426.	3.2	14

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37	Novel biologically-inspired rosette nanotube PLLA scaffolds for improving human mesenchymal stem cell chondrogenic differentiation. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 065003.	3.3	42
38	Novel injectable biomimetic hydrogels with carbon nanofibers and self assembled rosette nanotubes for myocardial applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1095-1102.	4.0	64
39	Bioactive Rosette Nanotube-Hydroxyapatite Nanocomposites Improve Osteoblast Functions. <i>Tissue Engineering - Part A</i> , 2012, 18, 1741-1750.	3.1	35
40	Imaging Carbon Nanotube Interaction with Nucleobases in Water Using the Statistical Mechanical Theory of Molecular Liquids. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15087-15092.	3.1	13
41	Covalent Capture of Self-Assembled Rosette Nanotubes. <i>Macromolecules</i> , 2012, 45, 7157-7162.	4.8	9
42	Synthesis of rhenium chelated MAG3 functionalized rosette nanotubes. <i>Tetrahedron Letters</i> , 2012, 53, 1645-1651.	1.4	8
43	Injectable, self-assembled composites for implantable orthopedic applications. , 2011, , .		0
44	Process Optimization for Nanocrystalline Cellulose Production from Microcrystalline Cellulose. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	0
45	Self-assembled rosette nanotubes for incorporating hydrophobic drugs in physiological environments. <i>International Journal of Nanomedicine</i> , 2011, 6, 101.	6.7	48
46	RGD-tagged helical rosette nanotubes aggravate acute lipopolysaccharide-induced lung inflammation. <i>International Journal of Nanomedicine</i> , 2011, 6, 3113.	6.7	12
47	Synthesis of a Î²-glycoside functionalized C ₆₀ motif for self-assembly into rosette nanotubes with predefined length. <i>Tetrahedron Letters</i> , 2011, 52, 661-664.	1.4	14
48	Electroless Synthesis of 1.4 nm Pd and Pt Nanoparticles on Self-Assembled Rosette Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1301, 45.	0.1	2
49	Self-assembled rosette nanotubes encapsulate and slowly release dexamethasone. <i>International Journal of Nanomedicine</i> , 2011, 6, 1035.	6.7	40
50	Self-Assembly of a Water-Soluble Tricyclic Heterocycle into J-Type Rosette Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	0
51	Efficiency of Cationic Rosette Nanotubes for siRNA Delivery. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1316, 1.	0.1	2
52	Electrostatic and Steric Effect of Peptides Functionalized on Self-Assembled Rosette Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1316, 1.	0.1	2
53	Structural Water Drives Self-Assembly of Organic Rosette Nanotubes and Holds Host Atoms in the Channel. <i>ChemPhysChem</i> , 2010, 11, 361-367.	2.1	43
54	Tuning cell adhesion on titanium with osteogenic rosette nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 550-563.	4.0	39

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55	One-Pot Nucleation, Growth, Morphogenesis, and Passivation of 1.4 nm Au Nanoparticles on Self-Assembled Rosette Nanotubes. <i>Journal of the American Chemical Society</i> , 2010, 132, 32-33.	13.7	47
56	Rosette nanotubes with 1.4 nm inner diameter from a tricyclic variant of the Lehnâ€™Mascal Gâ€™ base. <i>Chemical Communications</i> , 2010, 46, 6527.	4.1	29
57	Synthesis of a Tetracyclic Gâ€™ Scaffold for the Assembly of Rosette Nanotubes with 1.7 nm Inner Diameter. <i>Journal of Organic Chemistry</i> , 2010, 75, 7233-7239.	3.2	22
58	Water-Soluble J-Type Rosette Nanotubes with Giant Molar Ellipticity. <i>Journal of the American Chemical Society</i> , 2010, 132, 15136-15139.	13.7	61
59	Self-Assembled Rosette Nanotube/Hydrogel Composites for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1233-1243.	2.1	59
60	A novel drug delivery device for orthopedic applications. , 2010, , .		0
61	Rosette nanotubes inhibit bovine neutrophil chemotaxis. <i>Veterinary Research</i> , 2010, 41, 75.	3.0	11
62	Enhanced endothelial cell functions on rosette nanotube-coated titanium vascular stents. <i>International Journal of Nanomedicine</i> , 2009, 4, 91.	6.7	50
63	Different Cell Responses on Biologically Inspired Nano-coatings for Orthopedic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1209, 1.	0.1	0
64	Supramolecular Synthesis of Solidâ€™ State Tapes Through Molecular Facial Selfâ€™ Recognition. <i>Helvetica Chimica Acta</i> , 2009, 92, 1963-1972.	1.6	1
65	Synthetic strategy toward 1,9â€™ functionalized pyrido[2,3â€™ d<i>:6,5â€™ d<i>â€™]dipyrimidineâ€™ 2,4,6,8â€™ tetraones. <i>Journal of Heterocyclic Chemistry</i> , 2009, 46, 79-83.	2.6	4
66	Robust Auâ€™ PEG/PS Microbeads as Optically Stable Platforms for SERS. <i>Small</i> , 2009, 5, 1283-1286.	10.0	29
67	Macrophage Inflammatory Response to Selfâ€™ Assembling Rosette Nanotubes. <i>Small</i> , 2009, 5, 1446-1452.	10.0	20
68	Synthesis of sulfur-containing aryl and heteroaryl vinyls via Suzukiâ€™ Miyaura cross-coupling for the preparation of SERS-active polymers. <i>Tetrahedron Letters</i> , 2009, 50, 5467-5469.	1.4	13
69	SERS-active Ag/Au bimetallic nanoalloys on Si/SiOx. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 237-241.	9.4	36
70	Arginine-glycine-aspartic acid modified rosette nanotubeâ€™ hydrogel composites for bone tissue engineering. <i>Biomaterials</i> , 2009, 30, 1309-1320.	11.4	128
71	The role of RGD-tagged helical rosette nanotubes in the induction of inflammation and apoptosis in human lung adenocarcinoma cells through the P38 MAPK pathway. <i>Biomaterials</i> , 2009, 30, 3084-3090.	11.4	29
72	Synthesis, Properties, and Mechanistic Insight into the Self-Assembly of a Lamellar Fibrous Superstructure from a Synthetically Simple Discotic Molecule. <i>Langmuir</i> , 2009, 25, 11857-11861.	3.5	3

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73	Single-Molecule SERRS Detection Platforms Obtained via Galvanic Displacement on Silver Fractals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12897-12900.	3.1	10
74	Water Enhances the Aggregation of Model Asphaltenes in Solution via Hydrogen Bonding. <i>Energy & Fuels</i> , 2009, 23, 3687-3693.	5.1	66
75	Biologically inspired rosette nanotubes and nanocrystalline hydroxyapatite hydrogel nanocomposites as improved bone substitutes. <i>Nanotechnology</i> , 2009, 20, 175101.	2.6	79
76	Low Inflammatory Activation by Self-Assembling Rosette Nanotubes in Human Calu-3 Pulmonary Epithelial Cells. <i>Small</i> , 2008, 4, 817-823.	10.0	23
77	High-aspect ratio nanoparticles in nanotoxicology. <i>Integrated Environmental Assessment and Management</i> , 2008, 4, 128-129.	2.9	14
78	Chemically stable silver nanoparticle-crosslinked polymer microspheres. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 572-576.	9.4	44
79	Synthesis and catalytic activity of TentaGel-supported asymmetric dihydroxylation (DHQ)2PHAL ligand. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1049-1051.	1.8	10
80	Multiplex pathogen detection based on spatially addressable microarrays of barcoded resins. <i>Biotechnology Journal</i> , 2008, 3, 948-953.	3.5	13
81	A Regioselective Approach to Trisubstituted 2 (or 6)-Arylamino-pyrimidine-5-carbaldehydes and Their Application in the Synthesis of Structurally and Electronically Unique G-C Base Precursors. <i>Journal of Organic Chemistry</i> , 2008, 73, 931-939.	3.2	34
82	Synthesis of Hydrophobic Derivatives of the G-C Base for Rosette Nanotube Self-Assembly in Apolar Media. <i>Journal of Organic Chemistry</i> , 2008, 73, 4248-4251.	3.2	24
83	Enhanced Osteoblast Adhesion on Self-Assembled Nanostructured Hydrogel Scaffolds. <i>Tissue Engineering - Part A</i> , 2008, 14, 1353-1364.	3.1	77
84	Pyrene Derivatives of 2,2'-Bipyridine as Models for Asphaltenes: Synthesis, Characterization, and Supramolecular Organization. <i>Energy & Fuels</i> , 2008, 22, 715-720.	5.1	52
85	Hierarchical Self-Assembly of Organic Prolate Nanospheroids from Hydrophobic Rosette Nanotubes. <i>Langmuir</i> , 2008, 24, 4447-4450.	3.5	34
86	Preparation and Infrared/Raman Classification of 630 Spectroscopically Encoded Styrene Copolymers. <i>ACS Combinatorial Science</i> , 2008, 10, 31-36.	3.3	15
87	Rosette nanotubes show low acute pulmonary toxicity in vivo. <i>International Journal of Nanomedicine</i> , 2008, 3, 373.	6.7	33
88	Biomimetic helical rosette nanotubes and nanocrystalline hydroxyapatite coatings on titanium for improving orthopedic implants. <i>International Journal of Nanomedicine</i> , 2008, 3, 323.	6.7	61
89	Rosette Nanotubes: Factors Affecting the Self-assembly of the Monobases Versus the Twin Base System. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1057, 1.	0.1	0
90	Helical Rosette Nanotubes for bone tissue engineering applications. , 2007, , .		0

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91	Synthesis of Porous Silica Nanotubes using Rosette Nanotubes as Templates. Materials Research Society Symposia Proceedings, 2007, 1057, 1.	0.1	1
92	Osteoblast Behaviors on Novel Self-assembled Helical Rosette Nanotubes and Hydrogel Composites for Bone Tissue Engineering. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	1
93	Nanoimprinted SERS-Active Substrates with Tunable Surface Plasmon Resonances. Journal of Physical Chemistry C, 2007, 111, 6720-6723.	3.1	177
94	Molecular Basis for Water-Promoted Supramolecular Chirality Inversion in Helical Rosette Nanotubes. Journal of the American Chemical Society, 2007, 129, 5735-5743.	13.7	184
95	Spectroscopically Encoded Microspheres for Antigen Biosensing. Langmuir, 2007, 23, 6482-6485.	3.5	55
96	SERS Classification of Highly Related Performance Enhancers. ChemMedChem, 2007, 2, 1165-1167.	3.2	14
97	Synthesis and characterization of aryl thioacetyl styrene monomers: towards a new generation of SERS-active polymers. Tetrahedron Letters, 2007, 48, 9144-9147.	1.4	9
98	High-throughput screening flows along. Nature Chemical Biology, 2007, 3, 247-249.	8.0	21
99	Self-encoded polymer beads for microarray technologies. Sensors and Actuators B: Chemical, 2007, 125, 357-359.	7.8	13
100	Hexabenzocoronene Model Compounds for Asphaltene Fractions: Synthesis & Characterization. Energy & Fuels, 2006, 20, 2439-2447.	5.1	48
101	Spectroscopically Encoded Resins for High Throughput Imaging Time-of-Flight Secondary Ion Mass Spectrometry. ACS Combinatorial Science, 2006, 8, 18-25.	3.3	17
102	Classification of Spectroscopically Encoded Resins by Raman Mapping and Infrared Hyperspectral Imaging. ACS Combinatorial Science, 2006, 8, 192-198.	3.3	31
103	Development of Novel Nanostructured Tissue Engineering Scaffold Materials through Self-assembly for Bed-side Orthopedic Applications. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	1
104	The Canadian Regenerative Medicine and Nanomedicine Enterprise (CARMENE). International Journal of Nanomedicine, 2006, 1, 225-7.	6.7	2
105	Helical rosette nanotubes: A biomimetic coating for orthopedics?. Biomaterials, 2005, 26, 7304-7309.	11.4	73
106	Helical Rosette Nanotubes with Tunable Stability and Hierarchy. Journal of the American Chemical Society, 2005, 127, 8307-8309.	13.7	134
107	Helical rosette nanotubes: a more effective orthopaedic implant material. Nanotechnology, 2004, 15, S234-S239.	2.6	77
108	Long-Range Flow-Induced Alignment of Self-Assembled Rosette Nanotubes on Si/SiO _x and Poly(Methyl) Tj ETQq0 0,0 rgBT /Overlock 10	13.7	29

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109	Preparation, Physical Properties, On-Bead Binding Assay and Spectroscopic Reliability of 25 Barcoded Polystyrene- <i>b</i> -Poly(ethylene glycol) Graft Copolymers. <i>Journal of the American Chemical Society</i> , 2003, 125, 10546-10560.	13.7	65
110	Entropically driven self-assembly of multichannel rosette nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6487-6492.	7.1	157
111	Helical Rosette Nanotubes with Tunable Chiroptical Properties. <i>Journal of the American Chemical Society</i> , 2002, 124, 11064-11072.	13.7	273
112	Helical Rosette Nanotubes: Design, Self-Assembly, and Characterization. <i>Journal of the American Chemical Society</i> , 2001, 123, 3854-3855.	13.7	369
113	Barcoded Resins: A New Concept for Polymer-Supported Combinatorial Library Self-Deconvolution. <i>Journal of the American Chemical Society</i> , 2001, 123, 8151-8152.	13.7	86
114	Towards the DRED of Resin-Supported Combinatorial Libraries: A Non-Invasive Methodology Based on Bead Self-Encoding and Multispectral Imaging. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4483-4485.	13.8	34
115	Towards the DRED of Resin-Supported Combinatorial Libraries: A Non-Invasive Methodology Based on Bead Self-Encoding and Multispectral Imaging This work was supported by Purdue University, the TRASK fund, and the National Science Foundation (CHE-9875390 to HF, DMR-9704162 to DB). HF is a Cottrell Scholar of Research Corporation. DRED=dual recursive deconvolution.. <i>Angewandte Chemie International Edition</i> , 2000, 39, 4483-4485.	13.8	4
116	Molecular Recognition of NADP(H) and ATP by Macrocyclic Polyamines Bearing Acridine Groups. <i>Helvetica Chimica Acta</i> , 1997, 80, 786-803.	1.6	82
117	Supramolecular Catalysis of H/D Exchange in Malonate Ions by Macrocyclic Polyamines: A Model Enzyme with Enolase Activity. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 337-339.	4.4	18
118	Recent Advances at the Interface of Medicinal and Combinatorial Chemistry. Views on Methodologies for the Generation and Evaluation of Diversity and Application to Molecular Recognition and Catalysis. <i>Current Medicinal Chemistry</i> , 1996, 3, 343-378.	2.4	34