

Niki Baccile

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84
papers

4,643
citations

29
h-index

67
g-index

97
ext. papers

5,163
ext. citations

6.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
84	Hydrothermal carbon from biomass: a comparison of the local structure from poly- to monosaccharides and pentoses/hexoses. <i>Green Chemistry</i> , 2008 , 10, 1204	10	609
83	Morphological and structural differences between glucose, cellulose and lignocellulosic biomass derived hydrothermal carbons. <i>Green Chemistry</i> , 2011 , 13, 3273	10	483
82	Carboxylate-Rich Carbonaceous Materials via One-Step Hydrothermal Carbonization of Glucose in the Presence of Acrylic Acid. <i>Chemistry of Materials</i> , 2009 , 21, 484-490	9.6	428
81	Structural Characterization of Hydrothermal Carbon Spheres by Advanced Solid-State MAS ¹³ C NMR Investigations. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9644-9654	3.8	333
80	Sustainable nitrogen-doped carbonaceous materials from biomass derivatives. <i>Carbon</i> , 2010 , 48, 3778-3784	10.4	332
79	Solid-State NMR Study of Ibuprofen Confined in MCM-41 Material. <i>Chemistry of Materials</i> , 2006 , 18, 6382-6390	2.22	222
78	Hydrothermal carbon from biomass: structural differences between hydrothermal and pyrolyzed carbons via ¹³ C solid state NMR. <i>Langmuir</i> , 2011 , 27, 14460-71	4	209
77	Introducing ecodesign in silica sol-gel materials. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8537		109
76	One-step hydrothermal synthesis of nitrogen-doped nanocarbons: albumine directing the carbonization of glucose. <i>ChemSusChem</i> , 2010 , 3, 246-53	8.3	107
75	Advanced solid state NMR techniques for the characterization of sol-gel-derived materials. <i>Accounts of Chemical Research</i> , 2007 , 40, 738-46	24.3	92
74	Solid-State NMR Characterization of the Surfactant-Silica Interface in Templated Silicas: Acidic versus Basic Conditions. <i>Chemistry of Materials</i> , 2007 , 19, 1343-1354	9.6	90
73	Structural Insights on Nitrogen-Containing Hydrothermal Carbon Using Solid-State Magic Angle Spinning ¹³ C and ¹⁵ N Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8976-8982	3.8	85
72	Degradation and Crystallization of Cellulose in Hydrogen Chloride Vapor for High-Yield Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14455-14458	16.4	83
71	Unusual, pH-induced, self-assembly of sophorolipid biosurfactants. <i>ACS Nano</i> , 2012 , 6, 4763-76	16.7	80
70	Aerosol generated mesoporous silica particles. <i>Journal of Materials Chemistry</i> , 2003 , 13, 3011		80
69	Characterization of biomass and its derived char using ¹³ C-solid state nuclear magnetic resonance. <i>Green Chemistry</i> , 2014 , 16, 4839-4869	10	64
68	Kinetics of the formation of 2D-hexagonal silica nanostructured materials by nonionic block copolymer templating in solution. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11330-44	3.4	59

67	Sophorolipids: a yeast-derived glycolipid as greener structure directing agents for self-assembled nanomaterials. <i>Green Chemistry</i> , 2010 , 12, 1564	10	57
66	Self-Assembly Mechanism of pH-Responsive Glycolipids: Micelles, Fibers, Vesicles, and Bilayers. <i>Langmuir</i> , 2016 , 32, 10881-10894	4	55
65	Adjuvant Antibiotic Activity of Acidic Sophorolipids with Potential for Facilitating Wound Healing. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	52
64	From lab to market: An integrated bioprocess design approach for new-to-nature biosurfactants produced by <i>Starmerella bombicola</i> . <i>Biotechnology and Bioengineering</i> , 2018 , 115, 1195-1206	4.9	50
63	pH-triggered formation of nanoribbons from yeast-derived glycolipid biosurfactants. <i>Soft Matter</i> , 2014 , 10, 3950-9	3.6	49
62	pH-Driven Self-Assembly of Acidic Microbial Glycolipids. <i>Langmuir</i> , 2016 , 32, 6343-59	4	47
61	Development of a Cradle-to-Grave Approach for Acetylated Acidic Sophorolipid Biosurfactants. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1186-1198	8.3	45
60	Structure of Bolaamphiphile Sophorolipid Micelles Characterized with SAXS, SANS, and MD Simulations. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13113-33	3.4	43
59	Solid-state nuclear magnetic resonance: A valuable tool to explore organic-inorganic interfaces in silica-based hybrid materials. <i>Comptes Rendus Chimie</i> , 2010 , 13, 58-68	2.7	39
58	Ecodesign of ordered mesoporous materials obtained with switchable micellar assemblies. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8433-7	16.4	38
57	Organo-modified mesoporous silicas for organic pollutant removal in water: Solid-state NMR study of the organic/silica interactions. <i>Microporous and Mesoporous Materials</i> , 2008 , 110, 534-542	5.3	37
56	Sophorolipids-functionalized iron oxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1606-20	3.6	32
55	Antibacterial properties of sophorolipid-modified gold surfaces against Gram positive and Gram negative pathogens. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 325-334	6	28
54	Practical methods to reduce impurities for gram-scale amounts of acidic sophorolipid biosurfactants. <i>European Journal of Lipid Science and Technology</i> , 2013 , 115, 1404-1412	3	27
53	Surface charge of acidic sophorolipid micelles: effect of base and time. <i>Soft Matter</i> , 2013 , 9, 4911	3.6	27
52	pH-Controlled Self-Assembled Fibrillar Network Hydrogels: Evidence of Kinetic Control of the Mechanical Properties. <i>Chemistry of Materials</i> , 2019 , 31, 4817-4830	9.6	24
51	Micelles versus Ribbons: How Congeners Drive the Self-Assembly of Acidic Sophorolipid Biosurfactants. <i>ChemPhysChem</i> , 2017 , 18, 643-652	3.2	23
50	Nanoscale Platelet Formation by Monounsaturated and Saturated Sophorolipids under Basic pH Conditions. <i>Chemistry - A European Journal</i> , 2015 , 21, 19265-77	4.8	22

49	Using Evaporation-Induced Self-Assembly for the Direct Drug Templating of Therapeutic Vectors with High Loading Fractions, Tunable Drug Release, and Controlled Degradation. <i>Chemistry of Materials</i> , 2013 , 25, 4671-4678	9.6	22
48	Biocidal Properties of a Glycosylated Surface: Sophorolipids on Au(111). <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18086-95	9.5	21
47	In situ time-resolved SAXS study of the formation of mesostructured organically modified silica through modeling of micelles evolution during surfactant-templated self-assembly. <i>Langmuir</i> , 2012 , 28, 17477-93	4	21
46	Microbial biosurfactant research: time to improve the rigour in the reporting of synthesis, functional characterization and process development. <i>Microbial Biotechnology</i> , 2021 , 14, 147-170	6.3	21
45	Complex coacervation of natural sophorolipid bolaamphiphile micelles with cationic polyelectrolytes. <i>Green Chemistry</i> , 2018 , 20, 3371-3385	10	20
44	Synthesis of Uniform, Monodisperse, Sophorolipid Twisted Ribbons. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2419-26	4.5	19
43	Biosurfactant-mediated one-step synthesis of hydrophobic functional imogolite nanotubes. <i>RSC Advances</i> , 2012 , 2, 426-435	3.7	19
42	Bio-based glyco-bolaamphiphile forms a temperature-responsive hydrogel with tunable elastic properties. <i>Soft Matter</i> , 2018 , 14, 7859-7872	3.6	19
41	Time-Resolved in Situ Raman and Small-Angle X-ray Diffraction Experiments: From Silica-Precursor Hydrolysis to Development of Mesoscopic Order in SBA-3 Surfactant-Templated Silica. <i>Chemistry of Materials</i> , 2008 , 20, 1161-1172	9.6	17
40	Physical properties and in vitro bioactivity of hierarchical porous silica/AP composites. <i>Journal of Materials Chemistry</i> , 2007 , 17, 463-468		16
39	Single-molecule lamellar hydrogels from bolaform microbial glucolipids. <i>Soft Matter</i> , 2020 , 16, 2528-2539	9.6	15
38	Glucosomes: Glycosylated Vesicle-in-Vesicle Aggregates in Water from pH-Responsive Microbial Glycolipid. <i>ChemistryOpen</i> , 2017 , 6, 526-533	2.3	15
37	Surface-Induced Frustration in Solid State Polymorphic Transition of Native Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2017 , 18, 1975-1982	6.9	14
36	Asymmetrical, Symmetrical, Divalent, and Y-Shaped (Bola)amphiphiles: The Relationship between the Molecular Structure and Self-Assembly in Amino Derivatives of Sophorolipid Biosurfactants. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3841-3858	3.4	14
35	Self-assembly, interfacial properties, interactions with macromolecules and molecular modelling and simulation of microbial bio-based amphiphiles (biosurfactants). A tutorial review. <i>Green Chemistry</i> , 2021 , 23, 3842-3944	10	14
34	Synthesis and Biological Evaluation of Bolaamphiphilic Sophorolipids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8992-9005	8.3	14
33	Nanoscale antiadhesion properties of sophorolipid-coated surfaces against pathogenic bacteria. <i>Nanoscale Horizons</i> , 2019 , 4, 975-982	10.8	13
32	Soft lamellar solid foams from ice-templating of self-assembled lipid hydrogels: organization drives the mechanical properties. <i>Materials Horizons</i> , 2019 , 6, 2073-2086	14.4	12

31	Lipid-Based Quaternary Ammonium Sophorolipid Amphiphiles with Antimicrobial and Transfection Activities. <i>ChemSusChem</i> , 2019 , 12, 3642-3653	8.3	11
30	Effects of pH, temperature and shear on the structure-property relationship of lamellar hydrogels from microbial glucolipids probed by in situ rheo-SAXS. <i>Soft Matter</i> , 2020 , 16, 2540-2551	3.6	10
29	pH- and Time-Resolved in Situ SAXS Study of Self-Assembled Twisted Ribbons Formed by Elaidic Acid Sophorolipids. <i>Langmuir</i> , 2018 , 34, 2121-2131	4	10
28	Hierarchical Porosity in Silica Thin Films by a One-Step Templating Strategy Using a Stimuli-Responsive Bioderived Glycolipid. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23899-23907	3.8	10
27	Étude par des expériences HETCOR $^1\text{H}/^29\text{Si}$ des interfaces tensioactif/silice dans des matériaux mésoporeux. <i>Comptes Rendus Chimie</i> , 2006 , 9, 478-484	2.7	10
26	pH-switchable pickering emulsions stabilized by polyelectrolyte-biosurfactant complex coacervate colloids. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 23-36	9.3	10
25	Mesostructured silica from amino acid-based surfactant formulations and sodium silicate at neutral pH. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 170-174	2.3	9
24	Core-shell effects of functionalized oxide nanoparticles inside long-range meso-ordered spray-dried silica spheres. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 119-123	2.3	9
23	From bumblebee to bioeconomy: Recent developments and perspectives for sophorolipid biosynthesis. <i>Biotechnology Advances</i> , 2021 , 107788	17.8	9
22	Synthesis of multilamellar walls vesicles polyelectrolyte-surfactant complexes from pH-stimulated phase transition using microbial biosurfactants. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 493-502	9.3	8
21	Stimuli-Induced Nonequilibrium Phase Transitions in Polyelectrolyte-Surfactant Complex Coacervates. <i>Langmuir</i> , 2020 , 36, 8839-8857	4	8
20	Biocompatible Glyconanoparticles by Grafting Sophorolipid Monolayers on Monodispersed Iron Oxide Nanoparticles.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3095-3107	4.1	7
19	Easy Formation of Functional Liposomes in Water Using a pH-Responsive Microbial Glycolipid: Encapsulation of Magnetic and Upconverting Nanoparticles. <i>ChemNanoMat</i> , 2019 , 5, 1188-1201	3.5	7
18	Surface-induced assembly of sophorolipids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15227-15238	3.6	7
17	Unveiling the Interstitial Pressure between Growing Ice Crystals during Ice-Templating Using a Lipid Lamellar Probe. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1989-1997	6.4	6
16	Primary and Secondary Hydration Forces between Interdigitated Membranes Composed of Bolaform Microbial Glucolipids. <i>Langmuir</i> , 2020 , 36, 2191-2198	4	5
15	Impact of batch variability on physicochemical properties of manufactured TiO_2 and SiO_2 nanopowders. <i>Powder Technology</i> , 2014 , 267, 39-53	5.2	5
14	Ecodesign of Ordered Mesoporous Materials Obtained with Switchable Micellar Assemblies. <i>Angewandte Chemie</i> , 2008 , 120, 8561-8565	3.6	5

13	Palmitic acid sophorolipid biosurfactant: from self-assembled fibrillar network (SAFIN) to hydrogels with fast recovery. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200343	3	5
12	Synthesis and self-assembly of aminyl and alkynyl substituted sophorolipids. <i>Green Chemistry</i> , 2020 , 22, 8323-8336	10	4
11	Antibacterial properties of glycosylated surfaces: variation of the glucosidal moiety and fatty acid conformation of grafted microbial glycolipids. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 1307-1316	4.6	4
10	Characterization of Hydrothermal Carbonization Materials 2013 , 151-211		3
9	Cellulose Nanocrystal-Fibrin Nanocomposite Hydrogels Promoting Myotube Formation. <i>Biomacromolecules</i> , 2021 , 22, 2740-2753	6.9	3
8	Interpenetrated biosurfactant-silk fibroin networks - a SANS study. <i>Soft Matter</i> , 2021 , 17, 2302-2314	3.6	3
7	One-Step Introduction of Broad-Band Mesoporosity in Silica Particles Using a Stimuli-Responsive Bioderived Glycolipid. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 512-522	8.3	2
6	Nanomaterials from Renewable Resources 2013 , 335-356		2
5	Application of Advanced Solid-State NMR Techniques to the Characterization of Nanomaterials: A Focus on Interfaces and Structure 2010 , 139-182		2
4	NMR Characterisation of the Organic/SiO ₂ Interfaces in Templated Porous Silica.. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 984, 1		1
3	Proteins Induced Formation of Hydrothermal Nitrogen Doped Carbons. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1219, 4051		
2	Nuclear Magnetic Resonance as Investigation Tool for Pollutant/Sorbent Interactions. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2008 , 31-46	0.3	
1	Homogeneous supported monolayer from microbial glycolipid biosurfactant. <i>Journal of Molecular Liquids</i> , 2022 , 345, 117827		6