

Julianne M Gibbs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

1,504
citations

23
h-index

38
g-index

63
ext. papers

1,617
ext. citations

7.7
avg, IF

4.68
L-index

#	Paper	IF	Citations
52	Role of Ions on the Surface-Bound Water Structure at the Silica/Water Interface: Identifying the Spectral Signature of Stability. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2854-2864	6.4	19
51	Reverse transcription lesion-induced DNA amplification: An instrument-free isothermal method to detect RNA. <i>Analytica Chimica Acta</i> , 2021 , 1149, 238130	6.6	1
50	Accelerated Ripening in Chemically Fueled Emulsions**. <i>ChemSystemsChem</i> , 2021 , 3, e2000034	3.1	7
49	Enhanced mismatch selectivity of T4 DNA ligase far above the probe: Target duplex dissociation temperature. <i>Biopolymers</i> , 2021 , 112, e23393	2.2	1
48	Silica Surface Charge Enhancement at Elevated Temperatures Revealed by Interfacial Water Signals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 669-673	16.4	17
47	Structure of the Silica/Divalent Electrolyte Interface: Molecular Insight into Charge Inversion with Increasing pH. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26973-26981	3.8	12
46	Directed Assembly of Nanoparticle Threshold-Selector Arrays. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900098	6.4	2
45	New Insights into χ Measurements: Comparing Nonresonant Second Harmonic Generation and Resonant Sum Frequency Generation at the Silica/Aqueous Electrolyte Interface. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10991-11000	3.8	32
44	Influence of High pH on the Organization of Acetonitrile at the Silica/Water Interface Studied by Sum Frequency Generation Spectroscopy. <i>Langmuir</i> , 2018 , 34, 4445-4454	4	8
43	Quick Click: The DNA-Templated Ligation of 3'Q-Propargyl- and 5'QAzide-Modified Strands Is as Rapid as and More Selective than Ligase. <i>ChemBioChem</i> , 2018 , 19, 2081-2087	3.8	7
42	pH-Dependent Inversion of Hofmeister Trends in the Water Structure of the Electrical Double Layer. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2855-2861	6.4	57
41	Separating the pH-Dependent Behavior of Water in the Stern and Diffuse Layers with Varying Salt Concentration. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20229-20241	3.8	59
40	The presence of a 5'Qabasic lesion enhances discrimination of single nucleotide polymorphisms while inducing an isothermal ligase chain reaction. <i>Analyst</i> , 2016 , 141, 4272-7	5	4
39	Tuning Toehold Length and Temperature to Achieve Rapid, Colorimetric Detection of DNA from the Disassembly of DNA-Gold Nanoparticle Aggregates. <i>Langmuir</i> , 2016 , 32, 1585-90	4	26
38	Bimodal or Trimodal? The Influence of Starting pH on Site Identity and Distribution at the Low Salt Aqueous/Silica Interface. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16560-16567	3.8	44
37	Achieving room temperature DNA amplification by dialling in destabilization. <i>Chemical Communications</i> , 2015 , 51, 9101-4	5.8	10
36	The thermal reorganization of DNA immobilized at the silica/buffer interface: a vibrational sum frequency generation investigation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12452-7	3.6	8

35	Ketone Binding at Amino and Ureido Monolayer/Solvent Interfaces Studied by Nonlinear Optical Techniques. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28662-28670	3.8	5
34	Following the azide-alkyne cycloaddition at the silica/solvent interface with sum frequency generation. <i>ChemPhysChem</i> , 2014 , 15, 2247-51	3.2	8
33	The influence of concentration on specific ion effects at the silica/water interface. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 244107	1.8	28
32	Sharpening the thermal release of DNA from nanoparticles: towards a sequential release strategy. <i>Small</i> , 2013 , 9, 2862-71	11	19
31	Halide-Induced Cooperative Acid-Base Behavior at a Negatively Charged Interface. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8840-8850	3.8	39
30	Monitoring DNA hybridization and thermal dissociation at the silica/water interface using resonantly enhanced second harmonic generation spectroscopy. <i>Analytical Chemistry</i> , 2013 , 85, 8031-8	7.8	20
29	R&Ktitelbild: Rapid, Isothermal DNA Self-Replication Induced by a Destabilizing Lesion (Angew. Chem. 40/2013). <i>Angewandte Chemie</i> , 2013 , 125, 10856-10856	3.6	
28	Rapid, Isothermal DNA Self-Replication Induced by a Destabilizing Lesion. <i>Angewandte Chemie</i> , 2013 , 125, 10771-10775	3.6	1
27	Rapid, isothermal DNA self-replication induced by a destabilizing lesion. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10577-81	16.4	12
26	Specific Cation Effects on the Bimodal Acid-Base Behavior of the Silica/Water Interface. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1269-74	6.4	76
25	The Influence of Gap Length on Cooperativity and Rate of Association in DNA-Modified Gold Nanoparticle Aggregates. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11694-11701	3.8	7
24	Tuning ratios, densities, and supramolecular spacing in bifunctional DNA-modified gold nanoparticles. <i>Small</i> , 2012 , 8, 873-83	11	17
23	Tuning DNA Stability To Achieve Turnover in Template for an Enzymatic Ligation Reaction. <i>Angewandte Chemie</i> , 2011 , 123, 9084-9088	3.6	3
22	R&Ktitelbild: Tuning DNA Stability To Achieve Turnover in Template for an Enzymatic Ligation Reaction (Angew. Chem. 38/2011). <i>Angewandte Chemie</i> , 2011 , 123, 8920-8920	3.6	
21	Tuning DNA stability to achieve turnover in template for an enzymatic ligation reaction. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8922-6	16.4	15
20	Back Cover: Tuning DNA Stability To Achieve Turnover in Template for an Enzymatic Ligation Reaction (Angew. Chem. Int. Ed. 38/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8762-8762	16.4	1
19	Method for Evaluating Vibrational Mode Assignments in Surface-Bound Cyclic Hydrocarbons Using Sum-Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18284-18294	3.8	16
18	Orthogonally reactive SAMs as a general platform for bifunctional silica surfaces. <i>Langmuir</i> , 2011 , 27, 741-50	4	25

17	Highly Cooperative Behavior of Peptide Nucleic Acid-Linked DNA-Modified Gold-Nanoparticle and Comb-Polymer Aggregates. <i>Advanced Materials</i> , 2009 , 21, 706-709	24	40
16	Chemically diverse environmental interfaces and their reactions with ozone studied by sum frequency generation. <i>Vibrational Spectroscopy</i> , 2009 , 50, 86-98	2.1	35
15	DNA at aqueous/solid interfaces: chirality-based detection via second harmonic generation activity. <i>Journal of the American Chemical Society</i> , 2009 , 131, 844-8	16.4	33
14	Cooperative melting in caged dimers of rigid small molecule-DNA hybrids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9628-9	16.4	21
13	Heterogeneous ozone oxidation reactions of 1-pentene, cyclopentene, cyclohexene, and a menthenol derivative studied by sum frequency generation. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 11688-98	2.8	53
12	Jammed acid-base reactions at interfaces. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15444-7	16.4	53
11	Environmental Biogeochemistry Studied by Second-Harmonic Generation: A Look at the Agricultural Antibiotic Oxytetracycline. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8796-8804	3.8	28
10	Anion chelation by amido acid functionalized fused quartz/water interfaces studied by nonlinear optics. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7175-84	16.4	21
9	Insights into Heterogeneous Atmospheric Oxidation Chemistry: Development of a Tailor-Made Synthetic Model for Studying Tropospheric Surface Chemistry. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1567-1578	3.8	53
8	Making "sense" of DNA. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7492-3	16.4	72
7	Sharp melting in DNA-linked nanostructure systems: thermodynamic models of DNA-linked polymers. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8785-91	3.4	34
6	Sharp melting transitions in DNA hybrids without aggregate dissolution: proof of neighboring-duplex cooperativity. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15535-40	16.4	49
5	Sharp melting of polymer-DNA hybrids: an associative phase separation approach. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 1610-9	3.4	19
4	Multifunctional polymeric nanoparticles from diverse bioactive agents. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4168-9	16.4	94
3	DNA single strands tethered to fused quartz/water interfaces studied by second harmonic generation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15368-9	16.4	36
2	Polymer-DNA hybrids as electrochemical probes for the detection of DNA. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1170-8	16.4	146
1	(Salen)tin complexes: syntheses, characterization, crystal structures, and catalytic activity in the formation of propylene carbonate from CO(2) and propylene oxide. <i>Inorganic Chemistry</i> , 2004 , 43, 4315-27	5.7	106