

Julianne M Gibbs

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,787
citations

236612

25
h-index

276539

41
g-index

63
all docs

63
docs citations

63
times ranked

1792
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR-Click Enables Dual-Gene Editing with Modular Synthetic sgRNAs. <i>Bioconjugate Chemistry</i> , 2022, 33, 858-868.	1.8	2
2	Accelerated Ripening in Chemically Fueled Emulsions**. <i>ChemSystemsChem</i> , 2021, 3, e2000034.	1.1	18
3	Enhanced mismatch selectivity of T4 DNA ligase far above the probe: Target duplex dissociation temperature. <i>Biopolymers</i> , 2021, 112, e23393.	1.2	5
4	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.	2.1	55
5	Reverse transcription lesion-induced DNA amplification: An instrument-free isothermal method to detect RNA. <i>Analytica Chimica Acta</i> , 2021, 1149, 238130.	2.6	4
6	Silica Surface Charge Enhancement at Elevated Temperatures Revealed by Interfacial Water Signals. <i>Journal of the American Chemical Society</i> , 2020, 142, 669-673.	6.6	31
7	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.	1.5	23
8	Directed Assembly of Nanoparticle Threshold-Selector Arrays. <i>Advanced Electronic Materials</i> , 2019, 5, 1900098.	2.6	3
9	New Insights into $\chi^{(3)}$ 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.	1.5	43
10	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.	1.6	9
11	Quick Click: The DNA-Templated Ligation of 3'-OH and 5'-Azide-Modified Strands is as Rapid, as and More Selective than Ligase. <i>ChemBioChem</i> , 2018, 19, 2081-2087.	1.8	9
12	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.	2.1	76
13	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.	1.5	89
14	The presence of a 5'-abasic lesion enhances discrimination of single nucleotide polymorphisms while inducing an isothermal ligase chain reaction. <i>Analyst</i> , 2016, 141, 4272-4277.	1.7	5
15	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, 1585-1590.	1.6	29
16	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.	1.5	63
17	Achieving room temperature DNA amplification by dialling in destabilization. <i>Chemical Communications</i> , 2015, 51, 9101-9104.	2.2	12
18	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, 12452-12457.	1.3	11

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19	The influence of concentration on specific ion effects at the silica/water interface. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 244107.	0.7	40
20	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.	1.5	6
21	Following the Azide-Alkyne Cycloaddition at the Silica/Solvent Interface with Sum Frequency Generation. <i>ChemPhysChem</i> , 2014, 15, 2247-2251.	1.0	8
22	Sharpening the Thermal Release of DNA from Nanoparticles: Towards a Sequential Release Strategy. <i>Small</i> , 2013, 9, 2862-2871.	5.2	19
23	Halide-Induced Cooperative Acid-Base Behavior at a Negatively Charged Interface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8840-8850.	1.5	46
24	Monitoring DNA Hybridization and Thermal Dissociation at the Silica/Water Interface Using Resonantly Enhanced Second Harmonic Generation Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 8031-8038.	3.2	23
25	Rapid, Isothermal DNA Self-Replication Induced by a Destabilizing Lesion (<i>Angew. Chem.</i>)	1.6	14
26	Rapid, Isothermal DNA Self-Replication Induced by a Destabilizing Lesion. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10577-10581.	7.2	15
27	Specific Cation Effects on the Bimodal Acid-Base Behavior of the Silica/Water Interface. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1269-1274.	2.1	91
28	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.	1.5	7
29	Tuning Ratios, Densities, and Supramolecular Spacing in Bifunctional DNA-Modified Gold Nanoparticles. <i>Small</i> , 2012, 8, 873-883.	5.2	17
30	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.	1.5	17
31	Orthogonally Reactive SAMs as a General Platform for Bifunctional Silica Surfaces. <i>Langmuir</i> , 2011, 27, 741-750.	1.6	25
32	Tuning DNA Stability To Achieve Turnover in Template for an Enzymatic Ligation Reaction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8922-8926.	7.2	18
33	Back Cover: Tuning DNA Stability To Achieve Turnover in Template for an Enzymatic Ligation Reaction (<i>Angew. Chem. Int. Ed.</i> 38/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8762-8762.	7.2	1
34	Highly Cooperative Behavior of Peptide Nucleic Acid-Linked DNA-Modified Gold Nanoparticle and Comb-Polymer Aggregates. <i>Advanced Materials</i> , 2009, 21, 706-709.	11.1	42
35	Chemically diverse environmental interfaces and their reactions with ozone studied by sum frequency generation. <i>Vibrational Spectroscopy</i> , 2009, 50, 86-98.	1.2	36
36	DNA at Aqueous/Solid Interfaces: Chirality-Based Detection via Second Harmonic Generation Activity. <i>Journal of the American Chemical Society</i> , 2009, 131, 844-848.	6.6	35

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37	Cooperative Melting in Caged Dimers of Rigid Small Molecule-DNA Hybrids. <i>Journal of the American Chemical Society</i> , 2008, 130, 9628-9629.	6.6	24
38	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, 11688-11698.	1.1	58
39	Jammed Acid-Base Reactions at Interfaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 15444-15447.	6.6	58
40	Sharp Melting of Polymer-DNA Hybrids: An Associative Phase Separation Approach. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1610-1619.	1.2	20
41	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.	1.5	31
42	Anion Chelation by Amido Acid Functionalized Fused Quartz/Water Interfaces Studied by Nonlinear Optics. <i>Journal of the American Chemical Society</i> , 2007, 129, 7175-7184.	6.6	22
43	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.	1.5	55
44	Making "Sense" of DNA. <i>Journal of the American Chemical Society</i> , 2007, 129, 7492-7493.	6.6	81
45	Sharp Melting in DNA-Linked Nanostructure Systems: Thermodynamic Models of DNA-Linked Polymers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8785-8791.	1.2	38
46	Sharp Melting Transitions in DNA Hybrids without Aggregate Dissolution: Proof of Neighboring-Duplex Cooperativity. <i>Journal of the American Chemical Society</i> , 2007, 129, 15535-15540.	6.6	51
47	Multifunctional Polymeric Nanoparticles from Diverse Bioactive Agents. <i>Journal of the American Chemical Society</i> , 2006, 128, 4168-4169.	6.6	97
48	DNA Single Strands Tethered to Fused Quartz/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of the American Chemical Society</i> , 2005, 127, 15368-15369.	6.6	36
49	Polymer-DNA Hybrids as Electrochemical Probes for the Detection of DNA. <i>Journal of the American Chemical Society</i> , 2005, 127, 1170-1178.	6.6	157
50	(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, 4315-4327.	1.9	115