

# Eric U Borguet

## List of Publications by Year in descending order

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151  
papers

6,721  
citations

47006

47  
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74163

75  
g-index

156  
all docs

156  
docs citations

156  
times ranked

8739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second harmonic generation from the surface of centrosymmetric particles in bulk solution. <i>Chemical Physics Letters</i> , 1996, 259, 15-20.	2.6	230
2	Effect of Intercalated Metals on the Electrocatalytic Activity of 1T-MoS <sub>2</sub> for the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2018, 3, 7-13.	17.4	211
3	Contact Angle Measurements Using a Simplified Experimental Setup. <i>Journal of Chemical Education</i> , 2010, 87, 1403-1407.	2.3	202
4	Sensitivity of Ammonia Interaction with Single-Walled Carbon Nanotube Bundles to the Presence of Defect Sites and Functionalities. <i>Journal of the American Chemical Society</i> , 2005, 127, 10533-10538.	13.7	167
5	Adsorption of Hydrogen Sulfide onto Activated Carbon Fibers: Effect of Pore Structure and Surface Chemistry. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9744-9749.	10.0	154
6	Generalized Interface Polarity Scale Based on Second Harmonic Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4927-4932.	2.6	144
7	Effect of Interlayer Spacing on the Activity of Layered Manganese Oxide Bilayer Catalysts for the Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 1863-1870.	13.7	144
8	Polarity of Liquid Interfaces by Second Harmonic Generation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1997, 101, 713-718.	2.5	137
9	Towards graphyne molecular electronics. <i>Nature Communications</i> , 2015, 6, 6321.	12.8	135
10	Sulfurization of a carbon surface for vapor phase mercury removal – II: Sulfur forms and mercury uptake. <i>Carbon</i> , 2006, 44, 2998-3004.	10.3	130
11	Structure of Water at Charged Interfaces: A Molecular Dynamics Study. <i>Langmuir</i> , 2014, 30, 8056-8065.	3.5	130
12	Ambient stability of chemically passivated germanium interfaces. <i>Surface Science</i> , 2003, 543, 63-74.	1.9	120
13	Effect of Hydrogen-Bond Strength on the Vibrational Relaxation of Interfacial Water. <i>Journal of the American Chemical Society</i> , 2010, 132, 3756-3761.	13.7	119
14	Porphyrin Self-Assembly at Electrochemical Interfaces: Role of Potential Modulated Surface Mobility. <i>Journal of the American Chemical Society</i> , 2002, 124, 11964-11970.	13.7	115
15	Effect of Surface Charge on the Vibrational Dynamics of Interfacial Water. <i>Journal of the American Chemical Society</i> , 2009, 131, 12034-12035.	13.7	115
16	Nickel Confined in the Interlayer Region of Birnessite: an Active Electrocatalyst for Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10381-10385.	13.8	112
17	Optimizing Single-Molecule Conductivity of Conjugated Organic Oligomers with Carbodithioate Linkers. <i>Journal of the American Chemical Society</i> , 2010, 132, 7946-7956.	13.7	102
18	TiO <sub>2</sub> /LiCl-Based Nanostructured Thin Film for Humidity Sensor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 528-533.	8.0	102

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19	Regulating a Benzodifuran Single Molecule Redox Switch via Electrochemical Gating and Optimization of Molecule/Electrode Coupling. <i>Journal of the American Chemical Society</i> , 2014, 136, 8867-8870.	13.7	100
20	Thin polymer film based rapid surface acoustic wave humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 444-449.	7.8	97
21	Palladium Nanoparticle-Based Surface Acoustic Wave Hydrogen Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5709-5714.	8.0	94
22	Quasi-Ohmic Single Molecule Charge Transport through Highly Conjugated <i>meso-to-meso</i> Ethyne-Bridged Porphyrin Wires. <i>Nano Letters</i> , 2012, 12, 2722-2727.	9.1	90
23	Experimental Correlation Between Interfacial Water Structure and Mineral Reactivity. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1977-1982.	4.6	89
24	Effect of Anchoring Groups on Single Molecule Charge Transport through Porphyrins. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14890-14898.	3.1	88
25	Effect of Electric Fields on the Ultrafast Vibrational Relaxation of Water at a Charged Solid-Liquid Interface as Probed by Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1353-1358.	4.6	83
26	Single-Molecule Sensing of Environmental pH as an STM Break Junction and NEGF-DFT Approach. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1098-1102.	13.8	82
27	Seeing Is Believing: Hot Electron Based Gold Nanoplasmonic Optical Hydrogen Sensor. <i>ACS Nano</i> , 2014, 8, 7755-7762.	14.6	80
28	Intercalation of Cobalt into the Interlayer of Birnessite Improves Oxygen Evolution Catalysis. <i>ACS Catalysis</i> , 2016, 6, 7739-7743.	11.2	79
29	Conjugated Thiol Linker for Enhanced Electrical Conduction of Gold-Molecule Contacts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5398-5402.	2.6	77
30	Structure Evolution and Thermoelectric Properties of Carbonized Polydopamine Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6655-6660.	8.0	77
31	Site-specific properties and dynamical dipole coupling of CO molecules adsorbed on a vicinal Cu(100) surface. <i>Journal of Chemical Physics</i> , 1994, 101, 9080-9095.	3.0	76
32	Copper-Intercalated Birnessite as a Water Oxidation Catalyst. <i>Langmuir</i> , 2015, 31, 12807-12813.	3.5	69
33	Sulfurization of carbon surface for vapor phase mercury removal I: Effect of temperature and sulfurization protocol. <i>Carbon</i> , 2006, 44, 2990-2997.	10.3	68
34	The Single-Molecule Conductance and Electrochemical Electron-Transfer Rate Are Related by a Power Law. <i>ACS Nano</i> , 2013, 7, 5391-5401.	14.6	65
35	Mechanism of UV Photoreactivity of Alkylsiloxane Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9927-9938.	2.6	64
36	Determining Charge Transport Pathways through Single Porphyrin Molecules Using Scanning Tunneling Microscopy Break Junctions. <i>Journal of the American Chemical Society</i> , 2012, 134, 63-66.	13.7	62

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37	Photoreactivity of Alkylsiloxane Self-Assembled Monolayers on Silicon Oxide Surfaces. <i>Langmuir</i> , 2001, 17, 4497-4500.	3.5	56
38	Linking Surface Potential and Deprotonation in Nanoporous Silica: Second Harmonic Generation and Acid/Base Titration. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18465-18473.	3.1	55
39	Purification of carbon nanotubes by dynamic oxidation in air. <i>Journal of Materials Chemistry</i> , 2009, 19, 7904.	6.7	54
40	Hydrophobicity of Hydroxylated Amorphous Fused Silica Surfaces. <i>Langmuir</i> , 2013, 29, 7885-7895.	3.5	54
41	Insights on Interfacial Structure, Dynamics, and Proton Transfer from Ultrafast Vibrational Sum Frequency Generation Spectroscopy of the Alumina(0001)/Water Interface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5168-5177.	3.1	53
42	Ions Tune Interfacial Water Structure and Modulate Hydrophobic Interactions at Silica Surfaces. <i>Journal of the American Chemical Society</i> , 2020, 142, 6991-7000.	13.7	53
43	Potential-Induced Structural Change in a Self-Assembled Monolayer of 4-Methylbenzenethiol on Au(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 6335-6342.	3.1	52
44	Charge Transfer through Single-Stranded Peptide Nucleic Acid Composed of Thymine Nucleotides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7233-7240.	3.1	50
45	Fluorescence Labeling and Quantification of Oxygen-Containing Functionalities on the Surface of Single-Walled Carbon Nanotubes. <i>Langmuir</i> , 2009, 25, 7573-7577.	3.5	50
46	An STM Study of the pH Dependent Redox Activity of a Two-Dimensional Hydrogen Bonding Porphyrin Network at an Electrochemical Interface. <i>Journal of the American Chemical Society</i> , 2010, 132, 5054-5060.	13.7	50
47	Fluorescence Quenching of Dyes Covalently Attached to Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9579-9584.	2.5	48
48	The Role of Hydrophobic Chains in Self-Assembly at Electrified Interfaces: Observation of Potential-Induced Transformations of Two-Dimensional Crystals of Hexadecane by In-situ Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11264-11271.	2.6	47
49	Fluorescence Detection of Surface-Bound Intermediates Produced from UV Photoreactivity of Alkylsiloxane SAMs. <i>Journal of the American Chemical Society</i> , 2004, 126, 2260-2261.	13.7	47
50	Electrical and mechanical properties of poly(dopamine)-modified copper/reduced graphene oxide composites. <i>Journal of Materials Science</i> , 2017, 52, 11620-11629.	3.7	45
51	Sulfur Impregnation on Activated Carbon Fibers through H <sub>2</sub> S Oxidation for Vapor Phase Mercury Removal. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 292-300.	1.4	44
52	Adsorption and Electrochemical Activity: An In Situ Electrochemical Scanning Tunneling Microscopy Study of Electrode Reactions and Potential-Induced Adsorption of Porphyrins. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6141-6147.	2.6	43
53	Detection of low concentration oxygen containing functional groups on activated carbon fiber surfaces through fluorescent labeling. <i>Carbon</i> , 2006, 44, 1203-1209.	10.3	43
54	Dynamics of Porphyrin Electron Transfer Reactions at the Electrode-Electrolyte Interface at the Molecular Level. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6098-6101.	13.8	43

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55	Systematic Doping of Cobalt into Layered Manganese Oxide Sheets Substantially Enhances Water Oxidation Catalysis. <i>Inorganic Chemistry</i> , 2018, 57, 557-564.	4.0	43
56	The effect of surface chemical functional groups on the adsorption and desorption of a polar molecule, acetone, from a model carbonaceous surface, graphite. <i>Surface Science</i> , 2003, 522, 17-26.	1.9	42
57	A Vibrational Spectroscopic Study of the Fate of Oxygen-Containing Functional Groups and Trapped CO <sub>2</sub> in Single-Walled Carbon Nanotubes During Thermal Treatment. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19949-19954.	2.6	42
58	Neuronal adhesion and differentiation driven by nanoscale surface free-energy gradients. <i>Biomaterials</i> , 2010, 31, 3762-3771.	11.4	42
59	Impact of synthesis conditions on surface chemistry and structure of carbide-derived carbons. <i>Thermochimica Acta</i> , 2010, 497, 137-142.	2.7	42
60	Spectroscopy and Ultrafast Vibrational Dynamics of Strongly Hydrogen Bonded OH Species at the $\Gamma\pm\text{Al}_{2}\text{O}_{3}(11\bar{2}1\text{...}0)/\text{H}_{2}\text{O}$ Interface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16153-16161.	3.1	42
61	Generation of ultra-broadband pulses in the near-IR by non-collinear optical parametric amplification in potassium titanyl phosphate. <i>Optics Express</i> , 2008, 16, 3949.	3.4	41
62	Specificity and Sensitivity of Fluorescence Labeling of Surface Species. <i>Langmuir</i> , 2007, 23, 684-688.	3.5	39
63	Enhancement of adsorption on graphite (HOPG) by modification of surface chemical functionality and morphology. <i>Carbon</i> , 2002, 40, 2351-2358.	10.3	38
64	Chemical labeling for quantitative characterization of surface chemistry. <i>Current Opinion in Solid State and Materials Science</i> , 2007, 11, 86-91.	11.5	37
65	Dramatic Reduction of IR Vibrational Cross Sections of Molecules Encapsulated in Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 8191-8198.	13.7	36
66	Synergistic In-Layer Cobalt Doping and Interlayer Iron Intercalation into Layered MnO <sub>2</sub> Produces an Efficient Water Oxidation Electrocatalyst. <i>ACS Energy Letters</i> , 2018, 3, 2280-2285.	17.4	36
67	Observation of the Bending Mode of Interfacial Water at Silica Surfaces by Near-Infrared Vibrational Sum-Frequency Generation Spectroscopy of the [Stretch + Bend] Combination Bands. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 531-535.	4.6	35
68	Orientation-Controlled Single-Molecule Junctions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9771-9774.	13.8	35
69	Ultrafast vibrational dynamics and spectroscopy of a siloxane self-assembled monolayer. <i>Journal of Chemical Physics</i> , 2011, 134, 084701.	3.0	33
70	Design, Synthesis, and Characterization of Metal-Organic Frameworks for Enhanced Sorption of Chemical Warfare Agent Simulants. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19748-19758.	3.1	33
71	Nanolithographic Write, Read, and Erase via Reversible Nanotemplated Nanostructure Electrodeposition on Alkanethiol-Modified Au(111) in an Aqueous Solution. <i>Langmuir</i> , 2006, 22, 1388-1391.	3.5	32
72	Pulse-front matching of ultrabroadband near-infrared noncollinear optical parametric amplified pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 965.	2.1	32

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73	Vibrational Dynamics of Interfacial Water by Free Induction Decay Sum Frequency Generation (FID-SFG) at the Al <sub>2</sub> O <sub>3</sub> (1120)/H <sub>2</sub> O Interface. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 528-533.	4.6	31
74	Interaction of Acetone with Single Wall Carbon Nanotubes at Cryogenic Temperatures: A Combined Temperature Programmed Desorption and Theoretical Study. <i>Langmuir</i> , 2008, 24, 7848-7856.	3.5	30
75	Relating Interfacial Order to Sum Frequency Generation with Ab Initio Simulations of the Aqueous Al <sub>2</sub> O <sub>3</sub> (0001) and (112...0) Interfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21284-21294.	3.1	30
76	Hapticity-Dependent Charge Transport through Carbodithioate-Terminated [5,15-Bis(phenylethynyl)porphinato]zinc(II) Complexes in Metal-Molecule-Metal Junctions. <i>Nano Letters</i> , 2014, 14, 5493-5499.	9.1	29
77	Monovalent and Divalent Cations at the $\pm$ -Al <sub>2</sub> O <sub>3</sub> (0001)/Water Interface: How Cation Identity Affects Interfacial Ordering and Vibrational Dynamics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18315-18324.	3.1	29
78	Nickel Confined in the Interlayer Region of Birnessite: an Active Electrocatalyst for Water Oxidation. <i>Angewandte Chemie</i> , 2016, 128, 10537-10541.	2.0	28
79	Effect of Halide Anions on the Structure and Dynamics of Water Next to an Alumina (0001) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12819-12830.	3.1	28
80	Impact of Surface Heterogeneity on Mercury Uptake by Carbonaceous Sorbents under UHV and Atmospheric Pressure. <i>Environmental Science &amp; Technology</i> , 2002, 36, 4162-4169.	10.0	27
81	Transformation of truncated gold octahedrons into triangular nanoprisms through the heterogeneous nucleation of silver. <i>Nanoscale</i> , 2015, 7, 6827-6835.	5.6	27
82	Optical second harmonic generation studies of ultrathin high-k dielectric stacks. <i>Journal of Applied Physics</i> , 2005, 97, 083711.	2.5	26
83	Sensing Hydrogen Gas from Atmospheric Pressure to a Hundred Parts per Million with Nanogaps Fabricated Using a Single-Step Bending Deformation. <i>ACS Sensors</i> , 2016, 1, 73-80.	7.8	26
84	Strong dynamical dipole coupling between CO molecules adsorbed at two distinct sites on Cu(100). <i>Chemical Physics Letters</i> , 1992, 194, 57-61.	2.6	25
85	Second Harmonic Generation as a Probe of Multisite Adsorption at Solid-Liquid Interfaces of Aqueous Colloid Suspensions. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8805-8813.	3.1	25
86	Layering and orientational ordering of propane on graphite: An experimental and simulation study. <i>Journal of Chemical Physics</i> , 2002, 117, 7719-7731.	3.0	23
87	Detecting and quantifying oxygen functional groups on graphite nanofibers by fluorescence labeling of surface species. <i>Carbon</i> , 2010, 48, 4256-4267.	10.3	23
88	Ultra-broadband sum-frequency spectrometer of aqueous interfaces based on a non-collinear optical parametric amplifier. <i>Optics Express</i> , 2012, 20, 547.	3.4	23
89	Modeling of Diffusion of Acetone in UiO-66. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28469-28478.	3.1	23
90	Nonquadratic second-harmonic generation from semiconductor-oxide interfaces. <i>Physical Review B</i> , 2001, 63, .	3.2	22

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91	Second harmonic generation probing of dopant type and density at the Si/SiO <sub>2</sub> interface. Applied Physics Letters, 2011, 98, .	3.3	22
92	Effect of Functional and Electron Correlation on the Structure and Spectroscopy of the Al <sub>2</sub> O <sub>3</sub> (001)–H <sub>2</sub> O Interface. Journal of Physical Chemistry Letters, 2019, 10, 2031-2036.	4.6	22
93	Combined Experimental and Theoretical Investigation of Polar Organic Adsorption/Desorption from Model Carbonaceous Surfaces: Acetone on Graphite. Langmuir, 2002, 18, 2595-2600.	3.5	21
94	Probing Heterogeneous Charge Distributions at the $\gamma$ -Al <sub>2</sub> O <sub>3</sub> (0001)/H <sub>2</sub> O Interface. Journal of the American Chemical Society, 2020, 142, 12096-12105.	13.7	21
95	Investigations of water/oxide interfaces by molecular dynamics simulations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1537.	14.6	21
96	Self-Assembled Monolayer Compatible with Metal Surface Acoustic Wave Devices on Lithium Niobate. Langmuir, 2008, 24, 5161-5165.	3.5	19
97	Temperature and pressure dependence of molecular adsorption on single wall carbon nanotubes and the existence of an adsorption/desorption pressure gap. Carbon, 2010, 48, 1867-1875.	10.3	19
98	Sodium Halide Adsorption and Water Structure at the $\gamma$ -Alumina(0001)/Water Interface. Journal of Physical Chemistry C, 2019, 123, 15618-15628.	3.1	19
99	Structural evolution and electrical properties of metal ion-containing polydopamine. Journal of Materials Science, 2019, 54, 6393-6400.	3.7	19
100	First-Principles Calculation of Water p <i>K<sub>a</sub></i> Using the Newly Developed SCAN Functional. Journal of Physical Chemistry Letters, 2020, 11, 54-59.	4.6	19
101	Self-Assembly of Insoluble Porphyrins on Au(111) under Aqueous Electrochemical Control. Langmuir, 2011, 27, 14828-14833.	3.5	18
102	Anisotropic Conductivity at the Single-Molecule Scale. Angewandte Chemie - International Edition, 2019, 58, 14275-14280.	13.8	18
103	Effect of local environment on nanoscale dynamics at electrochemical interfaces: Anisotropic growth and dissolution in the presence of a step providing evidence for a Schwoebel–Ehrlich barrier at solid/liquid interfaces. Faraday Discussions, 2002, 121, 17-25.	3.2	17
104	Interplay between Intrinsic Thermal Stability and Expansion Properties of Functionalized UiO-67 Metal–Organic Frameworks. Chemistry of Materials, 2021, 33, 910-920.	6.7	17
105	Monitoring adsorption and desorption on a metal surface by optical non-resonant reflectivity changes. Surface Science, 1996, 369, L122-L130.	1.9	16
106	Picosecond infrared optical parametric amplifier for nonlinear interface spectroscopy. Review of Scientific Instruments, 2000, 71, 4050.	1.3	16
107	Second harmonic generation investigations of charge transfer at chemically-modified semiconductor interfaces. Journal of Applied Physics, 2002, 91, 4394-4398.	2.5	16
108	Potential-Induced High-Conductance Transport Pathways through Single-Molecule Junctions. Journal of the American Chemical Society, 2019, 141, 10109-10116.	13.7	16



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109	Spectroscopy and Dynamics of the Multiple Free OH Species at an Aqueous/Hydrophobic Interface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21734-21741.	3.1	15
110	Combined electron-hole dynamics at UV-irradiated ultrathin Si <sup>3</sup> N <sub>4</sub> /SiO <sub>2</sub> interfaces probed by second harmonic generation. <i>Physical Review B</i> , 2003, 68, .	3.2	14
111	Probing Surface Short Range Order and Inter-Adsorbate Interactions through IR Vibrational Spectroscopy: <sup>13</sup> C <sub>18</sub> O on Cu(100). <i>Journal of Physical Chemistry B</i> , 2005, 109, 8509-8512.	2.6	14
112	High-repetition-rate near-infrared noncollinear ultrabroadband optical parametric amplification in KTiOPO <sub>4</sub> . <i>Optics Letters</i> , 2010, 35, 3832.	3.3	14
113	In situ second-harmonic generation measurements of the stability of Si(111)-H and kinetics of oxide regrowth in ambient. <i>Journal of Applied Physics</i> , 2004, 95, 4675-4680.	2.5	13
114	Vibrational Dynamics at Aqueous-Organic Mineral Interfaces. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2307-2324.	3.1	13
115	Second-harmonic generation from chemically modified Ge(111) interfaces. <i>Journal of Chemical Physics</i> , 2002, 116, 6745-6754.	3.0	12
116	Ultrafast Time-Evolution of the Nonlinear Susceptibility of Hot Carriers at the Ge(111)-GeO <sub>2</sub> Interface As Probed by SHG. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3789-3793.	2.6	12
117	Oxygen-containing functionalities on the surface of multi-walled carbon nanotubes quantitatively determined by fluorescent labeling. <i>Applied Surface Science</i> , 2012, 258, 10185-10190.	6.1	11
118	Capturing the Ultrafast Vibrational Decoherence of Hydrogen Bonding in Interfacial Water. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5080-5085.	4.6	11
119	Dynamics and second-order nonlinear optical susceptibility of photoexcited carriers at Si(111) interfaces. <i>Applied Physics Letters</i> , 2003, 83, 2357-2359.	3.3	10
120	Metastable Phase of the Au(111) Surface in Electrolyte Revealed by STM and Asymmetric Potential Pulse Perturbation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5726-5731.	3.1	10
121	Synergistic Electronic Effects in AuCo Nanoparticles Stabilized in a Triazine-Based Covalent Organic Framework: A Catalyst for Methyl Orange and Methylene Blue Reduction. <i>ACS Applied Nano Materials</i> , 2022, 5, 4744-4753.	5.0	10
122	Electrodeposition of Metal Wires onto a Molecular Scale Template: An In Situ Investigation. <i>Langmuir</i> , 2009, 25, 5491-5495.	3.5	9
123	Resolving the source of blue luminescence from alkyl-capped silicon nanoparticles synthesized by laser pulse ablation. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6894-6899.	5.5	9
124	Ultrabroadband mid-infrared noncollinear difference frequency generation in a silver thiogallate crystal. <i>Optics Letters</i> , 2018, 43, 4402.	3.3	9
125	Tuning the Lewis acidity of metal-organic frameworks for enhanced catalysis. <i>Dalton Transactions</i> , 2021, 50, 3116-3120.	3.3	9
126	Infrared second harmonic generation spectroscopy of Ge(111) interfaces. <i>Journal of Chemical Physics</i> , 2003, 119, 3958-3962.	3.0	8



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127	Photoreactivity of Si(111)-H in Ambient. Journal of Physical Chemistry C, 2007, 111, 234-239.	3.1	8
128	Generation of sub-30-fs microjoule mid-infrared pulses for ultrafast vibrational dynamics at solid/liquid interfaces. Optics Letters, 2013, 38, 5008.	3.3	8
129	Time-resolved surface kinetics by IR diode laser reflection-absorption spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1990, 54-55, 573-580.	1.7	7
130	Amine-Directed Hydrogen-Bonded Two-Dimensional Supramolecular Structures. ChemPhysChem, 2016, 17, 3385-3389.	2.1	7
131	Electrochemical Nanoscale Templating: Laterally Self-Aligned Growth of Organic-Metal Nanostructures. Langmuir, 2012, 28, 17537-17544.	3.5	6
132	Ultrabroadband few-cycle infrared pulse generation from a noncollinear optical parametric amplifier based on bulk niobate crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2075.	2.1	6
133	Anisotropic Conductivity at the Single-Molecule Scale. Angewandte Chemie, 2019, 131, 14413-14418.	2.0	6
134	Bond-Dependent Thole Model for Polarizability and Spectroscopy. Journal of Physical Chemistry A, 2019, 123, 5378-5387.	2.5	6
135	Reimagining the $1^1$ Electronic State in Oxygen Evolution Catalysis: Oxidation-State-Modulated Superlattices as a New Type of Heterostructure for Maximizing Catalysis. Advanced Energy Materials, 2021, 11, 2101636.	19.5	6
136	Identifying UiO-67 Metal-Organic Framework Defects and Binding Sites through Ammonia Adsorption. ChemSusChem, 2022, 15, .	6.8	6
137	Ultrafast Hot-Carrier Dynamics at Chemically Modified Ge Interfaces Probed by SHG. Journal of Physical Chemistry B, 2006, 110, 19784-19787.	2.6	4
138	Synthesis and Properties of Au Hydride. ChemistrySelect, 2019, 4, 4287-4292.	1.5	4
139	Combined Impact of Denticity and Orientation on Molecular-Scale Charge Transport. Journal of Physical Chemistry C, 2020, 124, 9460-9469.	3.1	4
140	Nonquadratic Second-Harmonic Generation at Interfaces. Optics and Photonics News, 2001, 12, 41.	0.5	2
141	Innentitelbild: Anisotropic Conductivity at the Single-Molecule Scale (Angew. Chem. 40/2019). Angewandte Chemie, 2019, 131, 14138-14138.	2.0	1
142	TIME-RESOLVED DIODE LASER IR REFLECTION-ABSORPTION SPECTROSCOPY. Advanced Series in Physical Chemistry, 1995, , 243-274.	1.5	1
143	Layer by Layer Deposition of $1T\text{-MoS}_2$ for the Hydrogen Evolution Reaction. ChemistrySelect, 2022, 7, .	1.5	1
144	<title>Transient IR and visible laser absorption-reflection spectroscopic studies of interadsorbate and adsorbate/substrate interactions</title>. , 1994, , .		0

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145	<title>Adsorbate-induced reflectivity changes in the visible region on a metal surface</title>. , 1995, 2547, 30.		0
146	Tribute to Hai-Lung Dai. Journal of Physical Chemistry A, 2019, 123, 10463-10464.	2.5	0
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