

Alexander McQuillan

List of Publications by Year in descending order

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citations

331670

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38
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38
docs citations

38
times ranked

2216
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Spectroscopy of the TiO ₂ /Aqueous Solution Interface. Langmuir, 1999, 15, 2402-2408.	3.5	229
2	New Sol-Gel Attenuated Total Reflection Infrared Spectroscopic Method for Analysis of Adsorption at Metal Oxide Surfaces in Aqueous Solutions. Chelation of TiO ₂ , ZrO ₂ , and Al ₂ O ₃ Surfaces by Catechol, 8-Quinolol, and Acetylacetone. Langmuir, 1995, 11, 4193-4195.	3.5	184
3	An Infrared Spectroscopic Study of Carbonate Adsorption to Zirconium Dioxide Sol-Gel Films from Aqueous Solutions. Langmuir, 1997, 13, 3392-3396.	3.5	115
4	An In Situ Infrared Spectroscopic Study of the Adsorption of Lysine to TiO ₂ from an Aqueous Solution. Langmuir, 1998, 14, 6479-6484.	3.5	114
5	Surficial Siloxane-to-Silanol Interconversion during Room-Temperature Hydration/Dehydration of Amorphous Silica Films Observed by ATR-IR and TIR-Raman Spectroscopy. Langmuir, 2016, 32, 1568-1576.	3.5	101
6	Characterisation and activity of sol-gel-prepared TiO ₂ photocatalysts modified with Ca, Sr or Ba ion additives. Journal of Materials Chemistry, 2000, 10, 2358-2363.	6.7	99
7	Influence of Adsorbed Water on Phonon and UV-Induced IR Absorptions of TiO ₂ Photocatalytic Particle Films. Journal of Physical Chemistry B, 2004, 108, 19373-19379.	2.6	84
8	Adsorption/Desorption Kinetics from ATR-IR Spectroscopy. Aqueous Oxalic Acid on Anatase TiO ₂ . Langmuir, 2009, 25, 3538-3548.	3.5	66
9	Monitoring Hydrated Metal Oxide Surface Charge and Adsorption by STIRS. Langmuir, 1997, 13, 2614-2616.	3.5	65
10	UV-Visible Spectroelectrochemistry of the Reduction Products of Anthraquinone in Dimethylformamide Solutions: An Advanced Undergraduate Experiment. Journal of Chemical Education, 1997, 74, 1200.	2.3	59
11	In Situ Infrared Spectroscopy of Glyoxylic Acid Adsorption and Photocatalysis on TiO ₂ in Aqueous Solution. Journal of Physical Chemistry B, 1999, 103, 10562-10565.	2.6	58
12	In Situ ATR-FTIR Spectroscopic Study of Adsorption of Perchlorate, Sulfate, and Thiosulfate Ions onto Chromium(III) Oxide Hydroxide Thin Films. Langmuir, 1999, 15, 4595-4602.	3.5	56
13	The origin of intense Raman spectra from pyridine at silver electrode surfaces: The role of surface carbon. Journal of Raman Spectroscopy, 1980, 9, 273-278.	2.5	44
14	Infrared Spectroscopic Study of Calcium and Phosphate Ion Co-adsorption and of Brushite Crystallization on TiO ₂ . Langmuir, 2002, 18, 5019-5022.	3.5	42
15	Adsorbed Thiosulfate Intermediate of Cadmium Sulfide Aqueous Photocorrosion Detected and Characterized by In Situ Infrared Spectroscopy. Journal of Physical Chemistry B, 1998, 102, 4110-4113.	2.6	41
16	In Situ Infrared Spectroscopic Studies of Adsorption of Lactic Acid and Related Compounds on the TiO ₂ and CdS Semiconductor Photocatalyst Surfaces from Aqueous Solutions. Chemistry Letters, 1998, 27, 849-850.	1.3	32
17	Influence of Formate Adsorption and Protons on Shallow Trap Infrared Absorption (STIRA) of Anatase TiO ₂ During Photocatalysis. Journal of Physical Chemistry C, 2013, 117, 23645-23656.	3.1	31
18	In Situ ATR FTIR Study of Dextrin Adsorption on Anatase TiO ₂ . Langmuir, 2012, 28, 4233-4240.	3.5	29

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19	Shallow Electron Trap, Interfacial Water, and Outer-Sphere Adsorbed Oxalate IR Absorptions Correlate during UV Irradiation of Photocatalytic TiO ₂ Films in Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2011, 115, 902-907.	3.1	28
20	Structure and Conformation in Mixtures of Methyl-Terminated Poly(ethylene oxide) and Water. Principal Component Analysis and Band Fitting of Infrared Absorptions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14229-14238.	2.6	25
21	IR Spectroscopic Behavior of Polaronic Trapped Electrons in TiO ₂ under Aqueous Photocatalytic Conditions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13680-13692.	3.1	25
22	<i>In situ</i> infrared spectroscopic investigation of <i>Perna canaliculus</i> mussel larvae primary settlement. <i>Biofouling</i> , 2008, 24, 405-413.	2.2	20
23	Supramolecular Activation of para-Benzoquinone. <i>Angewandte Chemie International Edition in English</i> , 1995, 33, 2489-2491.	4.4	17
24	Adhesive Secretions of Live Mussels Observed in Situ by Attenuated Total Reflection Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2007, 61, 55-59.	2.2	16
25	Preparation and characterization of poly(styrene- <i>alt</i> -maleic acid)- <i>b</i> -polystyrene block copolymer self-assembled nanoparticles. <i>Colloid and Polymer Science</i> , 2008, 286, 1605-1612.	2.1	15
26	Histomorphometric and histologic evaluation of titanium-zirconium (aTiZr) implants with anodized surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 86.	3.6	11
27	In Situ Spectroelectrochemical Studies of the Decomposition of Hydroquinones on Platinum Electrodes in Dichloromethane Solutions. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7443-7447.	2.6	10
28	Microscopic and infrared spectroscopic comparison of the underwater adhesives produced by germlings of the brown seaweed species <i>Durvillaea antarctica</i> and <i>Hormosira banksii</i> . <i>Journal of the Royal Society Interface</i> , 2016, 13, 20151083.	3.4	10
29	Scanning Electron Microscopy and Energy Dispersive X-Ray Microanalysis of <i>Perna canaliculus</i> Mussel Larvae Adhesive Secretion. <i>Journal of Adhesion</i> , 2009, 85, 78-96.	3.0	9
30	ATR FTIR Study of the Interaction of TiO ₂ Nanoparticle Films with \hat{I}^2 -Lactoglobulin and Bile Salts. <i>Langmuir</i> , 2021, 37, 13278-13290.	3.5	7
31	Supramolekulare Aktivierung von <i>para</i> -Benzochinon. <i>Angewandte Chemie</i> , 1994, 106, 2584-2587.	2.0	6
32	Adsorption of Carboxymethyl Cellulose onto Titania Particle Films Studied with <i>In Situ</i> IR Spectroscopic Analysis. <i>Langmuir</i> , 2019, 35, 10734-10743.	3.5	5
33	Glossary of methods and terms used in surface chemical analysis (IUPAC Recommendations 2020). <i>Pure and Applied Chemistry</i> , 2020, 92, 1781-1860.	1.9	5
34	Adsorption of a Polyethoxylated Surfactant from Aqueous Solution to Silica Nanoparticle Films Studied with <i>In Situ</i> Attenuated Total Reflection Infrared Spectroscopy and Colloid Probe Atomic Force Microscopy. <i>Langmuir</i> , 2018, 34, 13481-13490.	3.5	3
35	Experiments on adsorption at hydrous metal oxide surfaces using attenuated total reflection infrared spectroscopy (ATRIRS) (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2019, 91, 2043-2061.	1.9	2
36	Infrared Spectroelectrochemistry of Nitrite in Absolute Methanol. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17604-17609.	3.1	1

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37	ConfChem Conference on A Virtual Colloquium to Sustain and Celebrate IYC 2011 Initiatives in Global Chemical Education: Chemistry Cartoon Competition from IUPAC Physical Chemistry Division. Journal of Chemical Education, 2013, 90, 1557-1558.	2.3	1
38	Competition-Driven Ligand Exchange for Functionalizing Nanoparticles and Nanoparticle Clusters without Colloidal Destabilization. ACS Applied Nano Materials, 2019, 2, 2230-2240.	5.0	1