

# Alexander McQuillan

## List of Publications by Year in descending order

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38  
papers

1,666  
citations

331670

21  
h-index

315739

38  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2216  
citing authors

#	ARTICLE	IF	CITATIONS
1	ATR FTIR Study of the Interaction of TiO <sub>2</sub> Nanoparticle Films with Î <sup>2</sup> -Lactoglobulin and Bile Salts. <i>Langmuir</i> , 2021, 37, 13278-13290.	3.5	7
2	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
3	Adsorption of Carboxymethyl Cellulose onto Titania Particle Films Studied with in Situ IR Spectroscopic Analysis. <i>Langmuir</i> , 2019, 35, 10734-10743.	3.5	5
4	Competition-Driven Ligand Exchange for Functionalizing Nanoparticles and Nanoparticle Clusters without Colloidal Destabilization. <i>ACS Applied Nano Materials</i> , 2019, 2, 2230-2240.	5.0	1
5	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
6	Adsorption of a Polyethoxylated Surfactant from Aqueous Solution to Silica Nanoparticle Films Studied with In Situ Attenuated Total Reflection Infrared Spectroscopy and Colloid Probe Atomic Force Microscopy. <i>Langmuir</i> , 2018, 34, 13481-13490.	3.5	3
7	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
8	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
9	Surficial Siloxane-to-Silanol Interconversion during Room-Temperature Hydration/Dehydration of Amorphous Silica Films Observed by ATR-IR and TIR-Raman Spectroscopy. <i>Langmuir</i> , 2016, 32, 1568-1576.	3.5	101
10	IR Spectroscopic Behavior of Polaronic Trapped Electrons in TiO <sub>2</sub> under Aqueous Photocatalytic Conditions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13680-13692.	3.1	25
11	Influence of Formate Adsorption and Protons on Shallow Trap Infrared Absorption (STIRA) of Anatase TiO <sub>2</sub> During Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23645-23656.	3.1	31
12	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. <i>Journal of Chemical Education</i> , 2013, 90, 1557-1558.	2.3	1
13	<i>In Situ</i> ATR FTIR Study of Dextrin Adsorption on Anatase TiO <sub>2</sub> . <i>Langmuir</i> , 2012, 28, 4233-4240.	3.5	29
14	Shallow Electron Trap, Interfacial Water, and Outer-Sphere Adsorbed Oxalate IR Absorptions Correlate during UV Irradiation of Photocatalytic TiO <sub>2</sub> Films in Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2011, 115, 902-907.	3.1	28
15	Infrared Spectroelectrochemistry of Nitrite in Absolute Methanol. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17604-17609.	3.1	1
16	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
17	Adsorption/Desorption Kinetics from ATR-IR Spectroscopy. Aqueous Oxalic Acid on Anatase TiO <sub>2</sub> . <i>Langmuir</i> , 2009, 25, 3538-3548.	3.5	66
18	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

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19	Preparation and characterization of poly(styrene-alt-maleic acid)-b-polystyrene block copolymer self-assembled nanoparticles. <i>Colloid and Polymer Science</i> , 2008, 286, 1605-1612.	2.1	15
20	<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
21	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
22	Influence of Adsorbed Water on Phonon and UV-Induced IR Absorptions of TiO <sub>2</sub> Photocatalytic Particle Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19373-19379.	2.6	84
23	Infrared Spectroscopic Study of Calcium and Phosphate Ion Coadsorption and of Brushite Crystallization on TiO <sub>2</sub> . <i>Langmuir</i> , 2002, 18, 5019-5022.	3.5	42
24	Characterisation and activity of sol-gel-prepared TiO <sub>2</sub> photocatalysts modified with Ca, Sr or Ba ion additives. <i>Journal of Materials Chemistry</i> , 2000, 10, 2358-2363.	6.7	99
25	Infrared Spectroscopy of the TiO <sub>2</sub> /Aqueous Solution Interface. <i>Langmuir</i> , 1999, 15, 2402-2408.	3.5	229
26	In Situ Infrared Spectroscopy of Glyoxylic Acid Adsorption and Photocatalysis on TiO <sub>2</sub> in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10562-10565.	2.6	58
27	In Situ ATR-FTIR Spectroscopic Study of Adsorption of Perchlorate, Sulfate, and Thiosulfate Ions onto Chromium(III) Oxide Hydroxide Thin Films. <i>Langmuir</i> , 1999, 15, 4595-4602.	3.5	56
28	An In Situ Infrared Spectroscopic Study of the Adsorption of Lysine to TiO <sub>2</sub> from an Aqueous Solution. <i>Langmuir</i> , 1998, 14, 6479-6484.	3.5	114
29	Adsorbed Thiosulfate Intermediate of Cadmium Sulfide Aqueous Photocorrosion Detected and Characterized by in Situ Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4110-4113.	2.6	41
30	In Situ Infrared Spectroscopic Studies of Adsorption of Lactic Acid and Related Compounds on the TiO <sub>2</sub> and CdS Semiconductor Photocatalyst Surfaces from Aqueous Solutions. <i>Chemistry Letters</i> , 1998, 27, 849-850.	1.3	32
31	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
32	Monitoring Hydrous Metal Oxide Surface Charge and Adsorption by STIRS. <i>Langmuir</i> , 1997, 13, 2614-2616.	3.5	65
33	UV-Visible Spectroelectrochemistry of the Reduction Products of Anthraquinone in Dimethylformamide Solutions: An Advanced Undergraduate Experiment. <i>Journal of Chemical Education</i> , 1997, 74, 1200.	2.3	59
34	An Infrared Spectroscopic Study of Carbonate Adsorption to Zirconium Dioxide Sol-Gel Films from Aqueous Solutions. <i>Langmuir</i> , 1997, 13, 3392-3396.	3.5	115
35	Supramolecular Activation of para-Benzoquinone. <i>Angewandte Chemie International Edition in English</i> , 1995, 33, 2489-2491.	4.4	17
36	New Sol-Gel Attenuated Total Reflection Infrared Spectroscopic Method for Analysis of Adsorption at Metal Oxide Surfaces in Aqueous Solutions. Chelation of TiO <sub>2</sub> , ZrO <sub>2</sub> , and Al <sub>2</sub> O <sub>3</sub> Surfaces by Catechol, 8-Quinolol, and Acetylacetone. <i>Langmuir</i> , 1995, 11, 4193-4195.	3.5	184

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37	Supramolekulare Aktivierung von <i>para</i> -Benzochinon. <i>Angewandte Chemie</i> , 1994, 106, 2584-2587.	2.0	6
38	The origin of intense Raman spectra from pyridine at silver electrode surfaces: The role of surface carbon. <i>Journal of Raman Spectroscopy</i> , 1980, 9, 273-278.	2.5	44