

Mark R Waterland

List of Publications by Year in descending order

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77
papers

2,124
citations

236925

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78
all docs

78
docs citations

78
times ranked

3033
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Hydrolysis of TiO_2 from HCl Digestion Liquors of Ilmenite. Industrial & Engineering Chemistry Research, 2022, 61, 6333-6342.	3.7	3
2	Characterization of the Degradation of Sheepskin by Monitoring Cytochrome c of Bacteria by Raman Spectroscopy. Analytical Letters, 2021, 54, 1005-1022.	1.8	1
3	Effect on cell membrane structural integrity of xylitol-coated probiotics when stabilised with milk solids – A FTIR study. International Journal of Dairy Technology, 2021, 74, 128-138.	2.8	4
4	Optical Detection of CoV-SARS-2 Viral Proteins to Sub-Picomolar Concentrations. ACS Omega, 2021, 6, 6404-6413.	3.5	38
5	Monitoring the mode of action of synthetic and natural biocides against <i>Aeromonas hydrophila</i> by Raman spectroscopy and chemometrics. Journal of Leather Science and Engineering, 2021, 3, .	6.0	3
6	Cholesterol-phospholipid interactions resist the detergent effect of bovine bile. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111842.	5.0	3
7	Validity and reliability of Raman spectroscopy for carotenoid assessment in cattle skin. Biochemistry and Biophysics Reports, 2021, 27, 101036.	1.3	2
8	The Bromine-Chlorine Interhalides $[Br_3Cl_5]^{2+}$, $[Br_4Cl_4]^{2+}$ and $[Br_6.56Cl_1.44]^{2+}$. European Journal of Inorganic Chemistry, 2020, 2020, 3302-3310.	2.0	4
9	Ultrasensitive surface-enhanced Raman scattering detection of biological pollutants by controlled evaporation on omniphobic substrates. Heliyon, 2020, 6, e04317.	3.2	3
10	RAMAN AND ATR-FTIR SPECTROSCOPY TOWARDS CLASSIFICATION OF WET BLUE BOVINE LEATHER USING RATIOMETRIC AND CHEMOMETRIC ANALYSIS. Journal of Leather Science and Engineering, 2020, 2, .	6.0	29
11	Raman spectroscopic detection of carotenoids in cattle skin. RSC Advances, 2020, 10, 22758-22765.	3.6	7
12	Hydrophobic chemical treatment of aggregate surfaces to re-engineer the mineral/bitumen interface and improve bitumen adhesion. Road Materials and Pavement Design, 2020, , 1-22.	4.0	2
13	A new class of ferromagnetic semiconductor: Copper molybdate organic-inorganic compound with phenanthroline organic linkers. Journal of Magnetism and Magnetic Materials, 2020, 508, 166881.	2.3	2
14	Effect of blending conditions on nano-clay bitumen nanocomposite properties. Road Materials and Pavement Design, 2019, 20, 1735-1756.	4.0	27
15	Rational Synthesis, Structures and Properties of the Ionic Liquid Binary Iodine-Bromine Octahalide Series $[I_nBr_{8-2n}]^{2+}$ ($n=0, 2, 3, 4$). Chemistry - A European Journal, 2019, 25, 11659-11669.	3.3	10
16	The Binary Iodine-Chlorine Octahalide Series $[I_nCl_{8-2n}]^{2+}$ ($n=3, 3.6, 4$). Chemistry - A European Journal, 2019, 25, 11650-11658.	3.3	12
17	Frontispiece: Rational Synthesis, Structures and Properties of the Ionic Liquid Binary Iodine-Bromine Octahalide Series $[I_nBr_{8-2n}]^{2+}$ ($n=0, 2, 3, 4$). Chemistry - A European Journal, 2019, 25, .	3.3	0
18	Using <i>in vivo</i> nickel to direct the pyrolysis of hyperaccumulator plant biomass. Green Chemistry, 2019, 21, 1236-1240.	9.0	22

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19	Importance of intact secondary protein structures of cell envelopes and glass transition temperature of the stabilization matrix on the storage stability of probiotics. <i>Food Research International</i> , 2019, 123, 198-207.	6.2	8
20	The structure of tris(chloromethyl)amine in the gas phase using quantum chemical calculations and gas electron diffraction and as a solid and melt using Raman spectroscopy. <i>Structural Chemistry</i> , 2018, 29, 803-813.	2.0	3
21	Mid-infrared reflectance spectroscopy as a tool for forage feed composition prediction. <i>Animal Feed Science and Technology</i> , 2018, 241, 102-111.	2.2	10
22	Evidence of reduced species in molybdenum oxide-phenanthroline layered hybrids from structural, magnetic and X-ray photoelectron spectroscopy studies. <i>Materials Letters</i> , 2018, 231, 187-189.	2.6	1
23	Highly sensitive surface-enhanced Raman scattering detection of brodifacoum and 1080 rodenticide in milk. , 2018, , .		0
24	A spectroelectrochemical investigation of nanoparticle and molecular resonances in surface enhanced Raman scattering from crystal violet and malachite green. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 405-412.	2.5	4
25	Development of novel polymer coating for FBG based relative humidity sensing. <i>Sensors and Actuators A: Physical</i> , 2016, 249, 217-224.	4.1	38
26	Diels-Alder Reaction of Anthranilic Acids: A Versatile Route to Dense Monolayers on Flat Edge and Basal Plane Graphitic Carbon Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23389-23395.	8.0	8
27	Spontaneous Modification of Free-Floating Few-Layer Graphene by Aryldiazonium Ions: Electrochemistry, Atomic Force Microscopy, and Infrared Spectroscopy from Grafted Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7543-7552.	3.1	17
28	Chemical and physical behaviour of heteroleptic 2,6-bis(1 H -benzimidazol-2-yl)pyridine and 2,2,6,6-tetrapyridine substituted tricyclophosphazene ruthenium(II) complexes. <i>Polyhedron</i> , 2016, 103, 217-226.	2.2	3
29	Investigation of polyimide coated fibre Bragg gratings for relative humidity sensing. <i>Measurement Science and Technology</i> , 2015, 26, 125101.	2.6	24
30	Polyimide coated fibre Bragg grating based moisture sensor development. , 2015, , .		0
31	Quantum Capacitance of Aryldiazonium Modified Large Area Few-Layer Graphene Electrodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25778-25785.	3.1	25
32	Avoiding cross-linking in iron-polyphosphazene metallo-polymers. <i>Inorganic Chemistry Communication</i> , 2015, 51, 1-3.	3.9	4
33	Terpyridine and 2,6-di(1H-pyrazol-1-yl)pyridine substituted cyclotri- and polyphosphazene ruthenium(II) complexes: Chemical and physical behaviour. <i>Polyhedron</i> , 2015, 85, 429-436.	2.2	16
34	Molecular excitons in a copper azadipyrrin complex. <i>Dalton Transactions</i> , 2014, 43, 17746-17753.	3.3	5
35	Stereoselective aggregation of chiral complexes with threefold-symmetric pendant carboxyl groups: an example of a self-assembly not seen in the crystalline state?. <i>RSC Advances</i> , 2013, 3, 12648.	3.6	1
36	An iron(II) spin crossover grafted cyclotriphosphazene. <i>Polyhedron</i> , 2013, 55, 37-44.	2.2	10

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37	A behavioural difference between an iron(II) grafted polyphosphazene and its small molecule cyclophosphazene analogue. <i>Inorganic Chemistry Communication</i> , 2013, 37, 158-161.	3.9	7
38	Validating the use of a carbon dioxide laser for assessing nociceptive thresholds in adult domestic cats (<i>Felis catus</i>). <i>Applied Animal Behaviour Science</i> , 2013, 143, 104-109.	1.9	4
39	Development of polymer coated fibre Bragg gratings for relative humidity sensing. , 2013, , .		1
40	Innovative Approach to Investigating the Microstructure of Calcified Tissues Using Specular Reflectance Fourier Transform-Infrared Microspectroscopy and Discriminant Analysis. <i>Analytical Chemistry</i> , 2012, 84, 3369-3375.	6.5	7
41	Influence of Doping on Hybrid Organic-Inorganic WO ₃ (4,4'-bipyridyl) _{0.5} Materials. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3787-3792.	3.1	6
42	Toward an Iron(II) Spin-Crossover Grafted Phosphazene Polymer. <i>Inorganic Chemistry</i> , 2012, 51, 8307-8316.	4.0	29
43	Luminescent Rhenium(I)-Dipyrrinato Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 446-455.	4.0	64
44	Structural characterisation of difluoro-boron chelates of quino[7,8-h]quinoline. <i>Inorganica Chimica Acta</i> , 2012, 380, 278-283.	2.4	19
45	Mechanically interlocked gold and silver nanoparticles using metallosupramolecular catenane chemistry. <i>Nanoscale</i> , 2011, 3, 941.	5.6	17
46	Synthesis, Structural and Nonlinear Optical Properties of 2-(3-Cyano-4-{5-[1-(2-Hydroxyethyl)-]Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0.9	9
47	Exciton coupling in coordination compounds. <i>Dalton Transactions</i> , 2011, 40, 3097.	3.3	136
48	Raman spectroscopy of dipyrins: nonresonant, resonant and surface-enhanced cross-sections and enhancement factors. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 2154-2164.	2.5	8
49	Strongly Absorbing π - π^* States in Heteroleptic Dipyrrin/2,2'-bipyridine Ruthenium Complexes: Excited-State Dynamics from Resonance Raman Spectroscopy. <i>Chemistry - an Asian Journal</i> , 2010, 5, 2036-2046.	3.3	26
50	The Nature of the Phosphazene Nitrogen-Metal Bond: DFT Calculations on 2-(Pyridyloxy)cyclophosphazene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1619-1625.	2.0	42
51	Chromophoric dipyrin complexes capable of binding to TiO ₂ : Synthesis, structure and spectroscopy. <i>Dalton Transactions</i> , 2010, 39, 437-445.	3.3	77
52	Determination of Estriol 16-glucuronide in human urine with surface plasmon resonance and lateral flow immunoassays. <i>Analytical Methods</i> , 2010, 2, 368.	2.7	17
53	Determining the degree of methylesterification of pectin by ATR/FT-IR: Methodology optimisation and comparison with theoretical calculations. <i>Carbohydrate Polymers</i> , 2009, 78, 847-853.	10.2	121
54	Sensitive determination of estriol-16-glucuronide using surface plasmon resonance sensing. <i>Steroids</i> , 2009, 74, 819-824.	1.8	15

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55	Heteroleptic Dipyrrin/Bipyridine Complexes of Ruthenium(II). <i>Inorganic Chemistry</i> , 2009, 48, 13-15.	4.0	74
56	Ultrafast dynamics in Cu(I)bisdiimine complexes from resonance Raman intensities. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1556-1567.	2.5	45
57	Chemical Solution Route to Conformal Phosphor Coatings on Nanostructures. <i>Advanced Materials</i> , 2008, 20, 4704-4707.	21.0	13
58	Metal-Metal Communication in Copper(II) Complexes of Cyclotetraphosphazene Ligands. <i>Inorganic Chemistry</i> , 2008, 47, 9182-9192.	4.0	44
59	Water-soluble Carbon Nanotube Chain-transfer Agents (CNT-CTAs). <i>Chemistry Letters</i> , 2007, 36, 1172-1173.	1.3	17
60	Using Internal Coordinates to Describe Photoinduced Geometry Changes in MLCT Excited States. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4604-4611.	2.5	24
61	Opal and inverse opal photonic crystals: Fabrication and characterization. <i>Polyhedron</i> , 2007, 26, 356-368.	2.2	260
62	Resonance Raman Excitation Profile of a Ruthenium(II) Complex of Dipyrido[2,3-a:3',2'-c]phenazine. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11194-11199.	2.5	24
63	Resonance Raman intensity analysis of an intramolecular charge-transfer process. <i>Current Applied Physics</i> , 2006, 6, 296-298.	2.4	1
64	Structural Changes upon Photoexcitation into the Metal-to-Ligand Charge-Transfer State of [Cu(pqx)(PPh ₃) ₂]+ Probed by Resonance Raman Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8826-8833.	2.5	32
65	Photocatalytic titania coatings. <i>Current Applied Physics</i> , 2004, 4, 189-192.	2.4	71
66	Unprecedented Oxo-Titanium Citrate Complex Precipitated from Aqueous Citrate Solutions, Exhibiting a Novel Bilayered Ti ₈ O ₁₀ Structural Core. <i>Inorganic Chemistry</i> , 2004, 43, 6300-6306.	4.0	43
67	Electron Injection Dynamics of Ru(II)(dcbpy) ₂ (SCN) ₂ on Zirconia. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6211-6219.	2.6	28
68	Symmetry breaking effects in NO ₃ ⁻ : Raman spectra of nitrate salts and ab initio resonance Raman spectra of nitrate-water complexes. <i>Journal of Chemical Physics</i> , 2001, 114, 6249-6258.	3.0	144
69	Resonance Raman and ab Initio Studies of the Electronic Transitions of Aqueous Azide Anion. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8385-8392.	2.5	18
70	Electronic absorption, resonance Raman and excited-state resonance Raman spectroscopy of ruthenium(II) and copper(II) complexes, with substituted dipyrido[3,2-a:2',3'-c]phenazine ligands, and their electron reduced products. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 243-253.	2.5	40
71	Relaxation and electron transfer dynamics in bare and DTDCI sensitized MoS ₂ nanoclusters. <i>Journal of Chemical Physics</i> , 2000, 113, 5448.	3.0	15
72	Metal-to-ligand charge-transfer excited-states in binuclear copper(II) complexes. Tuning MLCT excited-states through structural modification of bridging ligands. A resonance Raman study. <i>Dalton Transactions RSC</i> , 2000, , 121-127.	2.3	13

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73	Resonance Raman Intensity Analysis of the Carbazole/Tetracyanoethylene Charge-Transfer Complex:Â Mode-Specific Reorganization Energies for a Hole-Transport Molecule. Journal of Physical Chemistry B, 2000, 104, 10727-10737.	2.6	47
74	Far-ultraviolet resonance Raman spectroscopy of nitrate ion in solution. Journal of Chemical Physics, 2000, 113, 6760-6773.	3.0	93
75	Determination of the Lowest Excited State of Metal Complexes of Dipyrido[3, 2-a:2â€²,3â€²-c]Phenazine. Laser Chemistry, 1999, 19, 287-289.	0.5	1
76	Spectroelectrochemical studies and excited-state resonance-Raman spectroscopy of some mononuclear rhenium(I) polypyridyl bridging ligand complexes. Crystal structure determination of tricarbonylchloro[2,3-di(2-pyridyl)quinoxaline]rhenium(I). Journal of the Chemical Society Dalton Transactions, 1998, , 185-192.	1.1	50
77	Spectroscopic and electrochemical studies of a series of copper(I) and rhenium(I) complexes with substituted dipyrido[3,2-a:2â€²,3â€²-c]phenazine ligands. Journal of the Chemical Society Dalton Transactions, 1998, , 609-616.	1.1	73