

Colette M Mcdonagh

List of Publications by Citations

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113
papers

4,478
citations

34
h-index

65
g-index

121
ext. papers

4,877
ext. citations

5.4
avg, IF

5.39
L-index

#	Paper	IF	Citations
113	Optical chemical sensors. <i>Chemical Reviews</i> , 2008 , 108, 400-22	68.1	767
112	Optical chemical pH sensors. <i>Analytical Chemistry</i> , 2014 , 86, 15-29	7.8	351
111	Fibre optic oxygen sensor based on fluorescence quenching of evanescent-wave excited ruthenium complexes in sol-gel derived porous coatings. <i>Analyt, The</i> , 1993 , 118, 385-388	5	187
110	Inhibition of neuroblastoma tumor growth by targeted delivery of microRNA-34a using anti-disialoganglioside GD2 coated nanoparticles. <i>PLoS ONE</i> , 2012 , 7, e38129	3.7	175
109	Sol-gel based optical carbon dioxide sensor employing dual luminophore referencing for application in food packaging technology. <i>Analyt, The</i> , 2002 , 127, 1478-83	5	152
108	Sol-gel coatings for optical chemical sensors and biosensors. <i>Sensors and Actuators B: Chemical</i> , 1995 , 29, 51-57	8.5	148
107	Phase fluorometric dissolved oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 2001 , 74, 124-130	8.5	145
106	Dissolved oxygen sensor based on fluorescence quenching of oxygen-sensitive ruthenium complexes immobilized in sol-gel-derived porous silica coatings. <i>Analyt, The</i> , 1996 , 121, 785-788	5	141
105	Characterisation of porosity and sensor response times of sol-gel-derived thin films for oxygen sensor applications. <i>Journal of Non-Crystalline Solids</i> , 2002 , 306, 138-148	3.9	115
104	Plasmonic enhancement of fluorescence for sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 148-153	8.5	106
103	Optimization of Nanoparticle Size for Plasmonic Enhancement of Fluorescence. <i>Plasmonics</i> , 2007 , 2, 15-224		101
102	Temperature-corrected pressure-sensitive paint measurements using a single camera and a dual-lifetime approach. <i>Measurement Science and Technology</i> , 2002 , 13, 1552-1557	2	87
101	High performance optical ratiometric sol-gel-based pH sensor. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 208-213	8.5	83
100	A structural study of the sol-gel process by optical fluorescence and decay time spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1991 , 135, 8-14	3.9	81
99	Silica nanoparticles for cell imaging and intracellular sensing. <i>Nanotechnology</i> , 2013 , 24, 442002	3.4	77
98	Lifetime-based optical sensor for high-level pCO ₂ detection employing fluorescence resonance energy transfer. <i>Analytica Chimica Acta</i> , 2003 , 480, 275-283	6.6	70
97	Development of a LED-based phase fluorimetric oxygen sensor using evanescent wave excitation of a sol-gel immobilized dye. <i>Sensors and Actuators B: Chemical</i> , 1995 , 29, 226-230	8.5	65

96	Enhanced Fluorescence Sensing Using Sol-Gel Materials. <i>Journal of Fluorescence</i> , 2002 , 12, 333-342	2.4	63
95	LED-based fibre optic oxygen sensor using sol-gel coating. <i>Electronics Letters</i> , 1994 , 30, 888	1.1	54
94	Development of an optical sensor probe for the detection of dissolved carbon dioxide. <i>Sensors and Actuators B: Chemical</i> , 2006 , 119, 288-294	8.5	49
93	Effect of organic chelates on the performance of hybrid sol-gel coated AA 2024-T3 aluminium alloys. <i>Progress in Organic Coatings</i> , 2009 , 66, 406-411	4.8	48
92	Synthesis, Stabilization, and Functionalization of Silver Nanoplates for Biosensor Applications. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16380-16386	3.8	48
91	Photophysics of mixed-ligand polypyridyl ruthenium(II) complexes immobilised in silica sol-gel monoliths. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1473-1479		48
90	Corrosion protection of AA 2024-T3 aluminium alloys using 3, 4-diaminobenzoic acid chelated zirconium silane hybrid sol-gels. <i>Thin Solid Films</i> , 2010 , 518, 5753-5761	2.2	45
89	An integrated centrifugo-opto-microfluidic platform for arraying, analysis, identification and manipulation of individual cells. <i>Lab on A Chip</i> , 2015 , 15, 378-81	7.2	43
88	Experimental and theoretical studies of the optimisation of fluorescence from near-infrared dye-doped silica nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1143-9	4.4	43
87	Optimization of plasmonic enhancement of fluorescence on plastic substrates. <i>Langmuir</i> , 2008 , 24, 11261-7		42
86	Fibre optic chemical sensors based on evanescent wave interactions in sol-gel-derived porous coatings. <i>Journal of Sol-Gel Science and Technology</i> , 1994 , 2, 661-665	2.3	42
85	Novel hybrid optical sensor materials for in-breath O ₂ analysis. <i>Analyst, The</i> , 2008 , 133, 241-7	5	40
84	Enhancing the analytical performance of immunoassays that employ metal-enhanced fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1127-34	4.4	39
83	Surface plasmon-coupled emission (SPCE)-based immunoassay using a novel paraboloid array biochip. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1344-9	11.8	39
82	Photo-patternable hybrid ionogels for electrochromic applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8687		37
81	Optical properties of high refractive index thin films processed at low-temperature. <i>Optical Materials</i> , 2012 , 34, 1366-1370	3.3	35
80	Intracellular sensing and cell diagnostics using fluorescent silica nanoparticles. <i>Soft Matter</i> , 2012 , 8, 2579.6		35
79	At-line bioprocess monitoring by immunoassay with rotationally controlled serial siphoning and integrated supercritical angle fluorescence optics. <i>Analytica Chimica Acta</i> , 2013 , 781, 54-62	6.6	34

78	Development of an integrated optic oxygen sensor using a novel, generic platform. <i>Analyst, The</i> , 2005 , 130, 41-5	5	32
77	Micro- and nanostructured sol-gel-based materials for optical chemical sensing (2005-2015). <i>Mikrochimica Acta</i> , 2016 , 183, 2085-2109	5.8	32
76	Nanoparticle strategies for enhancing the sensitivity of fluorescence-based biochips. <i>Nanomedicine</i> , 2009 , 4, 645-56	5.6	30
75	Optical Sensor for Real-Time pH Monitoring in Human Tissue. <i>Small</i> , 2018 , 14, e1803627	11	30
74	The development and characterisation of novel hybrid sol-gel-derived films for optical pH sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11720		28
73	Development of a fluorescence lifetime-based sol-gel humidity sensor. <i>Analytica Chimica Acta</i> , 2006 , 570, 15-20	6.6	28
72	Signal enhancement of surface plasmon-coupled emission (SPCE) with the evanescent field of surface plasmons on a bimetallic paraboloid biochip. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3213-8	11.8	27
71	Novel multiparametric approach to elucidate the surface amine-silanization reaction profile on fluorescent silica nanoparticles. <i>Langmuir</i> , 2010 , 26, 18125-34	4	27
70	Fluorescence lifetime analysis and fluorescence correlation spectroscopy elucidate the internal architecture of fluorescent silica nanoparticles. <i>Langmuir</i> , 2010 , 26, 13741-6	4	24
69	Fabrication and performance evaluation of highly sensitive hybrid sol-gel-derived oxygen sensor films based on a fluorinated precursor. <i>Analytica Chimica Acta</i> , 2010 , 666, 83-90	6.6	23
68	Optimization of size, morphology and colloidal stability of fluorescein dye-doped silica NPs for application in immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2807-18	4.4	22
67	Cyanine5-doped silica nanoparticles as ultra-bright immunospecific labels for model circulating tumour cells in flow cytometry and microscopy. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 190-198	11.8	21
66	Synthesis and characterisation of far-red fluorescent cyanine dye doped silica nanoparticles using a modified microemulsion method for application in bioassays. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 470-479	8.5	21
65	Intracellular pH-sensing using core/shell silica nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 1336-45	4	20
64	Graphene-doped photo-patternable ionogels: tuning of conductivity and mechanical stability of 3D microstructures. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10552		20
63	Application of niobium enriched ormosils as thermally stable coatings for aerospace aluminium alloys. <i>Surface and Coatings Technology</i> , 2011 , 205, 3992-3998	4.4	20
62	Ratiometric fluorescence-based dissolved carbon dioxide sensor for use in environmental monitoring applications. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1899-907	4.4	19
61	Investigating the colloidal stability of fluorescent silica nanoparticles under isotonic conditions for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2015 , 456, 50-8	9.3	18

60	Experimental and theoretical evaluation of surface plasmon-coupled emission for sensitive fluorescence detection. <i>Journal of Biomedical Optics</i> , 2008 , 13, 054021	3.5	17
59	Demonstration of a surface plasmon-coupled emission (SPCE)-based immunoassay in the absence of a spacer layer. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1947-54	4.4	16
58	Dextran-coated silica nanoparticles for calcium-sensing. <i>Analyst, The</i> , 2011 , 136, 1722-7	5	15
57	Controlled deposition of sol-gel sensor material using hemiwicking. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 115008	2	15
56	A Prospective Study of the Use of the [Os(tpy) ₂] ²⁺ (tpy = 2,2',6':2''-Terpyridine) Core as Signalling Scaffolding for the Development of Chemical Sensors. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 2647-2655	2.3	15
55	Optical detection of magnetic resonance in MgO:Cr ³⁺ . II. Cr ³⁺ -ions in tetragonal symmetry sites. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 3309-3318		14
54	Mid-infrared Raman sources using spontaneous Raman scattering in germanium core optical fibers. <i>Applied Physics Letters</i> , 2013 , 102, 011111	3.4	12
53	Synthesis, characterisation and functionalisation of luminescent silica nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 6455-6465	2.3	12
52	Ruthenium-doped sol-gel derived silica films: Oxygen sensitivity of optical decay times. <i>Journal of Sol-Gel Science and Technology</i> , 1994 , 2, 513-517	2.3	12
51	Synthesis and characterization of a Noble metal Enhanced Optical Nanohybrid (NEON): a high brightness detection platform based on a dye-doped silica nanoparticle. <i>Langmuir</i> , 2012 , 28, 8244-50	4	11
50	Exchange interactions between Cr ³⁺ -ions in magnesium oxide. III. Luminescence and site-selective spectroscopy. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, 6419-6426		11
49	Optical detection of magnetic resonance of FA and F centres in CaO:Mg. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 5811-5822		11
48	Optical detection of magnetic resonance in MgO:Cr ³⁺ . I. Octahedral and orthorhombic site symmetries. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 2191-2201		11
47	On the triplet state of FA(Mg) centres in calcium oxide. <i>Journal of Physics C: Solid State Physics</i> , 1978 , 11, L983-L987		11
46	Synthesis, tailoring and characterization of silica nanoparticles containing a highly stable ruthenium complex. <i>Nanotechnology</i> , 2013 , 24, 365705	3.4	10
45	Baking Powder Actuated Centrifugo-Pneumatic Valving for Automation of Multi-Step Bioassays. <i>Micromachines</i> , 2016 , 7,	3.3	10
44	Highly sensitive detection of C-reactive protein using a novel dissolution approach in a dye-doped silica nanoparticle-based fluorescence immunoassay. <i>Analytical Methods</i> , 2017 , 9, 994-1003	3.2	9
43	Development of a multianalyte optical sol-gel biosensor for medical diagnostic. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 96-103	8.5	9

42	From particle to platelet: optimization of a stable, high brightness fluorescent nanoparticle based cell detection platform. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 540-9	6	9
41	Low loss optical channel waveguides for the infrared range using niobium based hybrid sol-gel material. <i>Optics Communications</i> , 2011 , 284, 2164-2167	2	9
40	Optical detection of magnetic resonance in the vibronic sidebands of R and N lines in MgO:Cr ³⁺ . <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 6025-6031		9
39	Development of organically modified silica nanoparticles for monitoring the intracellular level of oxygen using a frequency-domain FLIM platform. <i>RSC Advances</i> , 2015 , 5, 36938-36947	3.7	8
38	Dendrimer driven self-assembly of SPR active silver-gold nanohybrids. <i>Langmuir</i> , 2013 , 29, 4430-3	4	8
37	. <i>IEEE Sensors Journal</i> , 2012 , 12, 1425-1426	4	8
36	Synthesis and characterization of model silica-gold core-shell nanohybrid systems to demonstrate plasmonic enhancement of fluorescence. <i>Nanotechnology</i> , 2012 , 23, 325603	3.4	8
35	Demonstration of surface plasmon-coupled emission using solid-state electrochemiluminescence. <i>Chemical Physics Letters</i> , 2011 , 513, 112-117	2.5	8
34	Optical properties of micro-patterned silver nanoparticle substrates. <i>Journal of Fluorescence</i> , 2010 , 20, 215-23	2.4	8
33	Highly sensitive C-reactive protein (CRP) assay using metal-enhanced fluorescence (MEF). <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	7
32	Development of a sol-gel photonic sensor platform for the detection of biofilm formation. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 357-363	8.5	7
31	Biocompatibility and Bioimaging Application of Carbon Nanoparticles Synthesized by Phosphorus Pentoxide Combustion Method. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-10	3.2	7
30	Incorporating asymmetric PCR and microarray hybridization protocols onto an integrated microfluidic device, screening for the Escherichia coli ssrA gene. <i>Sensors and Actuators B: Chemical</i> , 2018 , 261, 325-334	8.5	6
29	Development and characterisation of integrated microfluidics on waveguide-based photonic platforms fabricated from hybrid materials. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 283-296	2.8	6
28	Synthesis and characterization of monodisperse, mesoporous, and magnetic sub-micron particles doped with a near-infrared fluorescent dye. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1545-1550	3.3	6
27	Optical sensors for application in intelligent food-packaging technology 2003 , 4876, 806		6
26	Direct spray deposition of silver nanoparticle films for biosensing applications. <i>RSC Advances</i> , 2015 , 5, 62836-62843	3.7	5
25	Multivalent linkers for improved covalent binding of oligonucleotides to dye-doped silica nanoparticles. <i>Nanotechnology</i> , 2015 , 26, 365703	3.4	5

24	Corrosion Protection Properties of Various Ligand Modified Organic Inorganic Hybrid Coating on AA 2024-T3. <i>ECS Transactions</i> , 2010 , 24, 231-246	1	5
23	Label-free optical characterization methods for detecting amine silanization-driven gold nanoparticle self-assembly. <i>Langmuir</i> , 2011 , 27, 10421-8	4	5
22	Novel tantalum based photocurable hybrid sol-gel material employed in the fabrication of channel optical waveguides and three-dimensional structures. <i>Applied Surface Science</i> , 2011 , 257, 2995-2999	6.7	5
21	A chemical quenching- and physical blocking-based method to minimize process-mediated aggregation of antibody-crosslinked nanoparticles for imaging application. <i>Analyst, The</i> , 2013 , 138, 6277-81	5	4
20	Sensing Performance of a Refractometric Optical Sensor Platform Based on Multimode Interference Couplers. <i>IEEE Sensors Journal</i> , 2011 , 11, 3269-3275	4	4
19	Protein Integrated, Functionally Active Silver Nanoplanar Structures for Enhanced SPR. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3078-3083	3.8	3
18	Plasmonic enhancement using core-shell nanoparticles 2005 , 5824, 79		3
17	Circular polarised emission from F and F _A centres in calcium oxide. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, 4913-4919		3
16	Controlled surface plasmon enhanced fluorescence from 1D gold gratings via azimuth rotations. <i>Methods and Applications in Fluorescence</i> , 2017 , 5, 015004	3.1	2
15	High efficiency ring-lens supercritical angle fluorescence (SAF) detection for optimum bioassay performance. <i>Optics Express</i> , 2013 , 21, 22070-5	3.3	2
14	Hybrid zirconium sol-gel thin films with high refractive index 2011 ,		2
13	Novel hybrid sol-gel materials for smart sensor windows 2005 ,		2
12	Development of a multi-analyte integrated optical sensor platform for indoor air-quality monitoring 2005 ,		2
11	Development of an LED-based fiber optic oxygen sensor using a sol-gel-derived coating 1994 ,		2
10	A rapid, topographical platelet activation assay. <i>Analyst, The</i> , 2013 , 138, 4512-8	5	1
9	Enhanced Fluorescence-Based Optical Sensor Performance Using a Simple Optical Collection Strategy. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 425-427	2.2	1
8	Optimisation of Plasmonic Enhancement of Fluorescence for Optical Biosensor Applications 2010 , 139-160		1
7	Novel polymer platform for enhanced biochip performance 2005 ,		1

- 6 In situ generation of plasmonic cavities for high sensitivity fluorophore and biomolecule detection. *Nanoscale*, **2018**, 10, 18555-18564 7.7 1
- 5 Temperature-corrected pressure-sensitive paint measurements for aerodynamic applications **2003**, 4876, 867
- 4 Quasi-distributed fiber optic chemical sensing using telecom optical fibers **1996**, 2836, 261
- 3 Development of an intrinsic phase fluorimetric oxygen sensor using a high-intensity blue LED **1994**, 2360, 461
- 2 Hybrid Sol-Gel Materials for Optical Sensing Applications. *World Scientific Series in Nanoscience and Nanotechnology*, **2019**, 37-90 0.1
- 1 Ultrasensitive microarray bioassays using cyanine5 dye-doped silica nanoparticles. *Nanotechnology*, **2016**, 27, 465501 3.4