

Idriss Blakey

List of Publications by Year in descending order

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105
papers

2,422
citations

185998

28
h-index

243296

44
g-index

106
all docs

106
docs citations

106
times ranked

3504
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Hyperbranched Polymers: Toward Targeted <i>in Vivo</i> ¹⁹ F Magnetic Resonance Imaging Using Designed Macromolecules. <i>Journal of the American Chemical Society</i> , 2010, 132, 5336-5337.	6.6	168
2	Multimodal Polymer Nanoparticles with Combined ¹⁹ F Magnetic Resonance and Optical Detection for Tunable, Targeted, Multimodal Imaging <i>in Vivo</i> . <i>Journal of the American Chemical Society</i> , 2014, 136, 2413-2419.	6.6	160
3	Hydrophilic and Amphiphilic Polyethylene Glycol-Based Hydrogels with Tunable Degradability Prepared by "Click" Chemistry. <i>Biomacromolecules</i> , 2012, 13, 4012-4021.	2.6	96
4	Synthesis and Evaluation of Partly Fluorinated Block Copolymers as MRI Imaging Agents. <i>Biomacromolecules</i> , 2009, 10, 374-381.	2.6	88
5	A Method for Controlling the Aggregation of Gold Nanoparticles: Tuning of Optical and Spectroscopic Properties. <i>Langmuir</i> , 2013, 29, 8266-8274.	1.6	76
6	Self-Assembly and Encoding of Polymer-Stabilized Gold Nanoparticles with Surface-Enhanced Raman Reporter Molecules. <i>Langmuir</i> , 2007, 23, 10539-10545.	1.6	61
7	Self assembly of plasmonic core-satellite nano-assemblies mediated by hyperbranched polymer linkers. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2827-2837.	2.9	57
8	Molecular imaging with polymers. <i>Polymer Chemistry</i> , 2012, 3, 1384.	1.9	54
9	Control of the Orientation of Symmetric Poly(styrene)- <i>block</i> -poly(<i>d,l</i> -lactide) Block Copolymers Using Statistical Copolymers of Dissimilar Composition. <i>Langmuir</i> , 2012, 28, 15876-15888.	1.6	53
10	Self-Assembled Hyperbranched Polymer-Gold Nanoparticle Hybrids: Understanding the Effect of Polymer Coverage on Assembly Size and SERS Performance. <i>Langmuir</i> , 2013, 29, 525-533.	1.6	53
11	Hydrogen-bonded supramolecular polymers as self-healing hydrogels: Effect of a bulky adamantyl substituent in the ureido-pyrimidinone monomer. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	52
12	Biocidal Polymers: A Mechanistic Overview. <i>Polymer Reviews</i> , 2017, 57, 276-310.	5.3	52
13	Raman spectral mapping of photo-oxidised polypropylene. <i>Polymer Degradation and Stability</i> , 2000, 70, 269-275.	2.7	49
14	Poly(aspartic acid) in Biomedical Applications: From Polymerization, Modification, Properties, Degradation, and Biocompatibility to Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2083-2105.	2.6	49
15	Synthesis and evaluation of partly fluorinated polyelectrolytes as components in ¹⁹ F MRI-detectable nanoparticles. <i>Polymer Chemistry</i> , 2010, 1, 1039.	1.9	45
16	Using Peptide Aptamer Targeted Polymers as a Model Nanomedicine for Investigating Drug Distribution in Cancer Nanotheranostics. <i>Molecular Pharmaceutics</i> , 2017, 14, 3539-3549.	2.3	45
17	Simultaneous FTIR Emission Spectroscopy and Chemiluminescence of Oxidizing Polypropylene: Evidence for Alternate Chemiluminescence Mechanisms. <i>Macromolecules</i> , 2001, 34, 1873-1880.	2.2	41
18	Interactions of iodoperfluorobenzene compounds with gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3604.	1.3	37

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19	Perturbation of the Experimental Phase Diagram of a Diblock Copolymer by Blending with an Ionic Liquid. <i>Macromolecules</i> , 2016, 49, 205-214.	2.2	37
20	Interactions of Phenylthioesters with Gold Nanoparticles (AuNPs): Implications for AuNP Functionalization and Molecular Barcoding of AuNP Assemblies. <i>Langmuir</i> , 2010, 26, 692-701.	1.6	36
21	Chain scission resists for extreme ultraviolet lithography based on high performance polysulfone-containing polymers. <i>Journal of Materials Chemistry</i> , 2011, 21, 5629.	6.7	36
22	Hydrogels Based on Poly(aspartic acid): Synthesis and Applications. <i>Frontiers in Chemistry</i> , 2019, 7, 755.	1.8	36
23	Biomimetic Surface Modification of Honeycomb Films via a "Grafting From" Approach. <i>Langmuir</i> , 2010, 26, 12748-12754.	1.6	35
24	Patterning of Tailored Polycarbonate Based Non-Chemically Amplified Resists Using Extreme Ultraviolet Lithography. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1449-1455.	2.0	34
25	Synthesis of a multimodal molecular imaging probe based on a hyperbranched polymer architecture. <i>Polymer Chemistry</i> , 2014, 5, 4450.	1.9	33
26	Hyperbranched Polymer-Gold Nanoparticle Assemblies: Role of Polymer Architecture in Hybrid Assembly Formation and SERS Activity. <i>Langmuir</i> , 2014, 30, 2249-2258.	1.6	33
27	Hyperbranched polymers for molecular imaging: designing polymers for parahydrogen induced polarisation (PHIP). <i>Chemical Communications</i> , 2012, 48, 1583-1585.	2.2	31
28	Improving tribological properties of oil-based lubricants using hybrid colloidal additives. <i>Tribology International</i> , 2020, 144, 106130.	3.0	30
29	Proton-Conducting La-Doped Ceria-Based Internal Reforming Layer for Direct Methane Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33758-33765.	4.0	29
30	Multiple Hydrogen-Bonded Complexes Based on 2-Ureido-4[1 <i>H</i>]-pyrimidinone: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11053-11062.	1.2	28
31	Controlled polymerisation of lactide using an organo-catalyst in supercritical carbon dioxide. <i>Green Chemistry</i> , 2011, 13, 2032.	4.6	28
32	Effect of Solvent Quality on the Solution Properties of Assemblies of Partially Fluorinated Amphiphilic Diblock Copolymers. <i>Macromolecules</i> , 2012, 45, 8681-8690.	2.2	28
33	Hydrogels with Lotus Leaf Topography: Investigating Surface Properties and Cell Adhesion. <i>Langmuir</i> , 2017, 33, 485-493.	1.6	28
34	3D shape change of multi-responsive hydrogels based on a light-programmed gradient in volume phase transition. <i>Chemical Communications</i> , 2018, 54, 10909-10912.	2.2	28
35	Synthesis of molecularly imprinted organic-inorganic hybrid azobenzene materials by sol-gel for radiation induced selective recognition of 2,4-dichlorophenoxyacetic acid. <i>Radiation Physics and Chemistry</i> , 2011, 80, 130-135.	1.4	27
36	Behavior of Lamellar Forming Block Copolymers under Nanoconfinement: Implications for Topography Directed Self-Assembly of Sub-10 nm Structures. <i>Macromolecules</i> , 2014, 47, 276-283.	2.2	25

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37	Chemiluminescence as a Probe of Polymer Oxidation. Australian Journal of Chemistry, 2006, 59, 485.	0.5	23
38	<i>In vivo</i> therapeutic evaluation of polymeric nanomedicines: effect of different targeting peptides on therapeutic efficacy against breast cancer. Nanotheranostics, 2018, 2, 360-370.	2.7	23
39	Energy Transfer and Activated Chemiluminescence during Thermal Oxidation of Polypropylene: Evidence for Chemically Induced Electron Exchange Luminescence. Macromolecules, 2001, 34, 9130-9138.	2.2	20
40	Can ionic liquid additives be used to extend the scope of poly(styrene)-block-poly(methyl methacrylate) block copolymers? Journal of Applied Polymer Science, 2014, 113, 031304.	1.0	20
41	Electron-beam writing of deoxygenated micro-patterns on graphene oxide film. Carbon, 2015, 95, 738-745.	5.4	20
42	Mechanism of 157 nm Photodegradation of Poly[4,5-difluoro-2,2-bis(trifluoromethyl)-1,3-dioxole-co-tetrafluoroethylene] (Teflon AF). Macromolecules, 2007, 40, 8954-8961.	2.2	19
43	Aqueous developable dual switching photoresists for nanolithography. Journal of Polymer Science Part A, 2012, 50, 4255-4265.	2.5	19
44	Using Directed Self Assembly of Block Copolymer Nanostructures to Modulate Nanoscale Surface Roughness: Towards a Novel Lithographic Process. Advanced Functional Materials, 2013, 23, 173-183.	7.8	19
45	Ultrasound-triggered release from metal shell microcapsules. Journal of Colloid and Interface Science, 2019, 554, 444-452.	5.0	19
46	Modelling of infectious spreading in heterogeneous polymer oxidation II. Refinement of stochastic model and calibration using chemiluminescence of polypropylene. Polymer Degradation and Stability, 2001, 74, 523-532.	2.7	18
47	Extreme ultraviolet (EUV) degradation of poly(olefin sulfone)s: Towards applications as EUV photoresists. Radiation Physics and Chemistry, 2011, 80, 236-241.	1.4	18
48	SERS-based detection of barcoded gold nanoparticle assemblies from within animal tissue. Journal of Raman Spectroscopy, 2013, 44, 1659-1665.	1.2	17
49	Aqueous solution behaviour of novel water-soluble amphiphilic copolymers with elevated hydrophobic unit content. Polymer Chemistry, 2017, 8, 4114-4123.	1.9	17
50	Diagnostic prospects and preclinical development of optical technologies using gold nanostructure contrast agents to boost endogenous tissue contrast. Chemical Science, 2020, 11, 8671-8685.	3.7	17
51	Novel high-index resists for 193-nm immersion lithography and beyond. , 2007, 6519, 110.		14
52	F2 excimer laser (157nm) radiation modification and surface ablation of PHEMA hydrogels and the effects on bioactivity: Surface attachment and proliferation of human corneal epithelial cells. Radiation Physics and Chemistry, 2011, 80, 219-229.	1.4	14
53	Polysulfone based non-CA resists for 193nm immersion lithography: Effect of increasing polymer absorbance on sensitivity. Radiation Physics and Chemistry, 2011, 80, 242-247.	1.4	14
54	High-RI resist polymers for 193 nm immersion lithography. , 2005, 5753, 827.		13

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55	Development of polymers for non-CAR resists for EUV lithography. , 2009, , .		13
56	XPS and ¹⁹ F NMR Study of the Photodegradation at 157 nm of Photolithographic-Grade Teflon AF Thin Films. <i>Macromolecules</i> , 2005, 38, 4050-4053.	2.2	12
57	Status of High-Index Materials for Generation-Three 193nm Immersion Lithography. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2007, 20, 643-650.	0.1	12
58	Novel Supramolecular Hydrogels as Artificial Vitreous Substitutes. <i>Macromolecular Symposia</i> , 2010, 296, 229-232.	0.4	12
59	Synthesis of high-refractive index sulfur containing polymers for 193-nm immersion lithography; a progress report. , 2006, 6153, 172.		11
60	Spatial arrangement of block copolymer nanopatterns using a photoactive homopolymer substrate. <i>Nanoscale Advances</i> , 2019, 1, 3078-3085.	2.2	11
61	The rational design of polymeric EUV resist materials by QSPR modelling. , 2007, , .		10
62	Use of 9,10-diphenylanthracene as a contrast agent in chemiluminescence imaging: The observation of spreading of oxidative degradation in thin polypropylene films. <i>Polymer Degradation and Stability</i> , 2007, 92, 2102-2109.	2.7	10
63	Plasmonic "top-hat" nano-star arrays by electron beam lithography. <i>Microelectronic Engineering</i> , 2015, 139, 13-18.	1.1	10
64	Synthesis, swelling, degradation and cytocompatibility of crosslinked PLLA-PEG-PLLA networks with short PLLA blocks. <i>European Polymer Journal</i> , 2016, 84, 448-464.	2.6	10
65	Non-CA resists for 193 nm immersion lithography: effects of chemical structure on sensitivity. <i>Proceedings of SPIE</i> , 2009, , .	0.8	9
66	Polycarbonate based nonchemically amplified photoresists for extreme ultraviolet lithography. <i>Proceedings of SPIE</i> , 2010, , .	0.8	9
67	Click functionalization of methacrylate-based hydrogels and their cellular response. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1781-1789.	2.5	9
68	Imaging tumour distribution of a polymeric drug delivery platform <i>in vivo</i> by ⁶⁴ Zn PET-MRI. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1237-1244.	1.6	9
69	A two-step synthesis for preparing metal microcapsules with a biodegradable polymer substrate. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2151-2158.	2.9	9
70	Application of quantitative structure property relationship to the design of high refractive index 193i resist. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2008, 7, 023001.	1.0	8
71	Effect of Multimodal Plasmon Resonances on the Optical Properties of Five-Pointed Nanostars. <i>Nanomaterials and Nanotechnology</i> , 2015, 5, 22.	1.2	8
72	The influence of casting parameters on the surface morphology of PS- <i>b</i> -P4VP honeycomb films. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3721-3732.	2.5	8

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73	Dependence of Block Copolymer Domain Spacing and Morphology on the Cation Structure of Ionic Liquid Additives. <i>Macromolecules</i> , 2018, 51, 8979-8986.	2.2	8
74	Development of an operational high refractive index resist for 193nm immersion lithography. , 2008, , .		7
75	Non-chemically amplified resists for 193-nm immersion lithography: influence of absorbance on performance. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7
76	Electron-Beam-Induced Freezing of an Aromatic-Based EUV Resist: A Robust Template for Directed Self-Assembly of Block Copolymers. <i>IEEE Nanotechnology Magazine</i> , 2012, 11, 1140-1147.	1.1	7
77	Control through monomer placement of surface properties and morphology of fluoromethacrylate copolymers. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2633-2641.	2.5	7
78	Healing surface roughness of lithographic nanopatterns through sub-10 nm aqueous-dispersible polymeric particles with excellent dry etch durability. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 627-635.	1.7	7
79	Tagged Core-Satellite Nanoassemblies: Role of Assembling Sequence on Surface-Enhanced Raman Scattering (SERS) Performance. <i>Applied Spectroscopy</i> , 2019, 73, 1428-1435.	1.2	7
80	Halogen and trace element analysis of carbonate-veins and Fe-oxyhydroxide by LA-ICPMS: Implications for seafloor alteration, Atlantis Bank, SW Indian Ridge. <i>Chemical Geology</i> , 2020, 547, 119668.	1.4	7
81	Surface-enhanced Raman encoded polymer stabilized gold nanoparticles: Demonstration of potential for use in bioassays. <i>European Polymer Journal</i> , 2017, 87, 508-518.	2.6	6
82	Antimicrobial anilinium polymers: The properties of poly(N , N -dimethylaminophenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 To	2.5	6
83	High-pressure real-time ¹²⁹ Xe NMR: monitoring of surfactant conformation during the self-assembly of reverse micelles in supercritical carbon dioxide. <i>Chemical Communications</i> , 2010, 46, 2850.	2.2	5
84	EUVL compatible LER solutions using functional block copolymers. <i>Proceedings of SPIE</i> , 2012, , .	0.8	5
85	New Polymer Passive Sampler for Sensitive Biomonitoring of Lipid-Rich Matrices. <i>Environmental Science and Technology Letters</i> , 2016, 3, 52-56.	3.9	5
86	Stepwise Like Supramolecular Polymerization of Plasmonic Nanoparticle Building Blocks through Complementary Interactions. <i>Macromolecules</i> , 2020, 53, 7469-7478.	2.2	5
87	Photo/Thermal Dual Responses in Aqueous-Soluble Copolymers Containing 1-Naphthyl Methacrylate. <i>Macromolecules</i> , 2021, 54, 4860-4870.	2.2	5
88	Characterisation of grafted supports used for solid-phase synthesis. <i>Polymer International</i> , 2003, 52, 1734-1739.	1.6	4
89	Electron beam induced freezing of positive tone, EUV resists for directed self assembly applications. , 2011, , .		4
90	Comment on "Multimodal coupling of optical transitions and plasmonic oscillations in rhodamine B modified gold nanoparticles" by M. Stobiecka and M. Hepel, <i>Phys. Chem. Chem. Phys.</i> 2011, 13, 1131. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16444.	1.3	3

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91	Extending the scope of poly(styrene)-block-poly(methyl methacrylate) for directed self-assembly. Proceedings of SPIE, 2014, , .	0.8	3
92	Spectral normalisation by error minimisation for prediction of conversion in solvent-free catalytic chain transfer polymerisations. RSC Advances, 2016, 6, 69484-69491.	1.7	3
93	Spatial control of the topography of photo-sensitive block copolymer thin films. Polymer Chemistry, 2019, 10, 3135-3145.	1.9	2
94	Poly(2-hydroxyethyl methacrylate) Hydrogels Doped with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2021, 4, 5577-5589.	2.4	2
95	Sensitive polysulfone based chain scissioning resists for 193nm lithography. , 2011, , .		1
96	Healing LER using directed self assembly: treatment of EUVL resists with aqueous solutions of block copolymers. Proceedings of SPIE, 2013, , .	0.8	1
97	SERS-barcoded colloidal gold NP assemblies as imaging agents for use in biodiagnostics. Proceedings of SPIE, 2014, , .	0.8	1
98	Effect of changes in the surface chemistry and topography of poly(2-hydroxyethyl methacrylate) on the in vitro attachment of human corneal epithelial cells. Journal of Bioactive and Compatible Polymers, 2018, 33, 321-331.	0.8	1
99	Photo-directing chemoepitaxy: the versatility of poly(aryl methacrylate) films in tuning block copolymer wetting. Polymer Chemistry, 2021, 12, 3201-3209.	1.9	1
100	Synthesis and Characterisation of Hybrid Polymer-Gold Nanoparticles: Towards Novel Biosensors. , 2006, , .		0
101	Characterisation of hybrid gold-polymer nanoparticles for use in bioassays. , 2006, , .		0
102	Effect of nanoholes on the plasmonic properties of star nanostructures. Proceedings of SPIE, 2011, , .	0.8	0
103	Systematic investigation of the synthesis, characterization and switching mechanism of metal oxide nanoparticle resists. , 2016, , .		0
104	Three-dimensional Plasmonic Fields of Gold Nanostar Arrays: Beyond the Near-field. Current Nanoscience, 2016, 12, 592-597.	0.7	0
105	Embedded top-coat for reducing the effect out of band radiation in EUV lithography. , 2017, , .		0