Idriss Blakey

List of Publications by Year
in descending order

105	2,422	185998 28	243296 44
papers	citations	h-index	g-index

106	106	106	3504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photo-directing chemoepitaxy: the versatility of poly(aryl methacrylate) films in tuning block copolymer wetting. Polymer Chemistry, 2021, 12, 3201-3209.	1.9	1
2	Poly(aspartic acid) in Biomedical Applications: From Polymerization, Modification, Properties, Degradation, and Biocompatibility to Applications. ACS Biomaterials Science and Engineering, 2021, 7, 2083-2105.	2.6	49
3	Photo/Thermal Dual Responses in Aqueous-Soluble Copolymers Containing 1-Naphthyl Methacrylate. Macromolecules, 2021, 54, 4860-4870.	2.2	5
4	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
5	Improving tribological properties of oil-based lubricants using hybrid colloidal additives. Tribology International, 2020, 144, 106130.	3.0	30
6	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
7	Stepwise Like Supramolecular Polymerization of Plasmonic Nanoparticle Building Blocks through Complementary Interactions. Macromolecules, 2020, 53, 7469-7478.	2.2	5
8	Halogen and trace element analysis of carbonate-veins and Fe-oxyhydroxide by LA-ICPMS: Implications for seafloor alteration, Atlantis Bank, SW Indian Ridge. Chemical Geology, 2020, 547, 119668.	1.4	7
9	Ultrasound-triggered release from metal shell microcapsules. Journal of Colloid and Interface Science, 2019, 554, 444-452.	5.0	19
10	Spatial arrangement of block copolymer nanopatterns using a photoactive homopolymer substrate. Nanoscale Advances, 2019, 1, 3078-3085.	2.2	11
11	Hydrogels Based on Poly(aspartic acid): Synthesis and Applications. Frontiers in Chemistry, 2019, 7, 755.	1.8	36
12	Tagged Core-Satellite Nanoassemblies: Role of Assembling Sequence on Surface-Enhanced Raman Scattering (SERS) Performance. Applied Spectroscopy, 2019, 73, 1428-1435.	1.2	7
13	Spatial control of the topography of photo-sensitive block copolymer thin films. Polymer Chemistry, 2019, 10, 3135-3145.	1.9	2
14	Antimicrobial anilinium polymers: The properties of poly(N , N â€dimethylaminophenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Tc	2.5	6
15	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
16	Healing surface roughness of lithographic nanopatterns through sub-10 nm aqueous-dispersible polymeric particles with excellent dry etch durability. Molecular Systems Design and Engineering, 2018, 3, 627-635.	1.7	7
17	A two-step synthesis for preparing metal microcapsules with a biodegradable polymer substrate. Journal of Materials Chemistry B, 2018, 6, 2151-2158.	2.9	9
18	Dependence of Block Copolymer Domain Spacing and Morphology on the Cation Structure of Ionic Liquid Additives. Macromolecules, 2018, 51, 8979-8986.	2.2	8

#	Article	IF	Citations
19	In vivo therapeutic evaluation of polymeric nanomedicines: effect of different targeting peptides on therapeutic efficacy against breast cancer. Nanotheranostics, 2018, 2, 360-370.	2.7	23
20	3D shape change of multi-responsive hydrogels based on a light-programmed gradient in volume phase transition. Chemical Communications, 2018, 54, 10909-10912.	2.2	28
21	Aqueous solution behaviour of novel water-soluble amphiphilic copolymers with elevated hydrophobic unit content. Polymer Chemistry, 2017, 8, 4114-4123.	1.9	17
22	Hydrogels with Lotus Leaf Topography: Investigating Surface Properties and Cell Adhesion. Langmuir, 2017, 33, 485-493.	1.6	28
23	Proton-Conducting La-Doped Ceria-Based Internal Reforming Layer for Direct Methane Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 33758-33765.	4.0	29
24	Using Peptide Aptamer Targeted Polymers as a Model Nanomedicine for Investigating Drug Distribution in Cancer Nanotheranostics. Molecular Pharmaceutics, 2017, 14, 3539-3549.	2.3	45
25	Biocidal Polymers: A Mechanistic Overview. Polymer Reviews, 2017, 57, 276-310.	5.3	52
26	Surface-enhanced Raman encoded polymer stabilized gold nanoparticles: Demonstration of potential for use in bioassays. European Polymer Journal, 2017, 87, 508-518.	2.6	6
27	Embedded top-coat for reducing the effect out of band radiation in EUV lithography. , 2017, , .		0
28	Systematic investigation of the synthesis, characterization and switching mechanism of metal oxide nanoparticle resists. , 2016, , .		0
29	The influence of casting parameters on the surface morphology of PSâ€•b â€P4VP honeycomb films. Journal of Polymer Science Part A, 2016, 54, 3721-3732.	2.5	8
30	Synthesis, swelling, degradation and cytocompatibility of crosslinked PLLA-PEG-PLLA networks with short PLLA blocks. European Polymer Journal, 2016, 84, 448-464.	2.6	10
31	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
32	New Polymer Passive Sampler for Sensitive Biomonitoring of Lipid-Rich Matrices. Environmental Science and Technology Letters, 2016, 3, 52-56.	3.9	5
33	Perturbation of the Experimental Phase Diagram of a Diblock Copolymer by Blending with an Ionic Liquid. Macromolecules, 2016, 49, 205-214.	2.2	37
34	Three-dimensional Plasmonic Fields of Gold Nanostar Arrays: Beyond the Near-field. Current Nanoscience, 2016, 12, 592-597.	0.7	0
35	Effect of Multimodal Plasmon Resonances on the Optical Properties of Five-Pointed Nanostars. Nanomaterials and Nanotechnology, 2015, 5, 22.	1.2	8
36	Control through monomer placement of surface properties and morphology of fluoromethacrylate copolymers. Journal of Polymer Science Part A, 2015, 53, 2633-2641.	2.5	7

#	Article	IF	Citations
37	Imaging tumour distribution of a polymeric drug delivery platform in vivo by <scp>PETâ€MRI</scp>. Journal of Chemical Technology and Biotechnology, 2015, 90, 1237-1244.	1.6	9
38	Plasmonic â€˜top-hatâ€™ nano-star arrays by electron beam lithography. Microelectronic Engineering, 2015, 139, 13-18.	1.1	10
39	Electron-beam writing of deoxygenated micro-patterns on graphene oxide film. Carbon, 2015, 95, 738-745.	5.4	20
40	Click functionalization of methacrylate-based hydrogels and their cellular response. Journal of Polymer Science Part A, 2014, 52, 1781-1789.	2.5	9
41	Can ionic liquid additives be used to extend the scope of poly(styrene)-block-poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2014, 13, 031304.	1.0	20
42	SERS-barcoded colloidal gold NP assemblies as imaging agents for use in biodiagnostics. Proceedings of SPIE, 2014, , .	0.8	1
43	Extending the scope of poly(styrene)-block-poly(methyl methacrylate) for directed self-assembly. Proceedings of SPIE, 2014, , .	0.8	3
44	Hydrogenâ€bonded supramolecular polymers as selfâ€healing hydrogels: Effect of a bulky adamantyl substituent in the ureidoâ€pyrimidinone monomer. Journal of Applied Polymer Science, 2014, 131, .	1.3	52
45	Multimodal Polymer Nanoparticles with Combined ¹⁹F Magnetic Resonance and Optical Detection for Tunable, Targeted, Multimodal Imaging in Vivo. Journal of the American Chemical Society, 2014, 136, 2413-2419.	6.6	160
46	Synthesis of a multimodal molecular imaging probe based on a hyperbranched polymer architecture. Polymer Chemistry, 2014, 5, 4450.	1.9	33
47	Self assembly of plasmonic coreâ€“satellite nano-assemblies mediated by hyperbranched polymer linkers. Journal of Materials Chemistry B, 2014, 2, 2827-2837.	2.9	57
48	Behavior of Lamellar Forming Block Copolymers under Nanoconfinement: Implications for Topography Directed Self-Assembly of Sub-10 nm Structures. Macromolecules, 2014, 47, 276-283.	2.2	25
49	Hyperbranched Polymerâ€“Gold Nanoparticle Assemblies: Role of Polymer Architecture in Hybrid Assembly Formation and SERS Activity. Langmuir, 2014, 30, 2249-2258.	1.6	33
50	SERSâ€based detection of barcoded gold nanoparticle assemblies from within animal tissue. Journal of Raman Spectroscopy, 2013, 44, 1659-1665.	1.2	17
51	Self-Assembled Hyperbranched Polymerâ€“Gold Nanoparticle Hybrids: Understanding the Effect of Polymer Coverage on Assembly Size and SERS Performance. Langmuir, 2013, 29, 525-533.	1.6	53
52	A Method for Controlling the Aggregation of Gold Nanoparticles: Tuning of Optical and Spectroscopic Properties. Langmuir, 2013, 29, 8266-8274.	1.6	76
53	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
54	Healing LER using directed self assembly: treatment of EUVL resists with aqueous solutions of block copolymers. Proceedings of SPIE, 2013, , .	0.8	1

#	Article	IF	Citations
55	EUVL compatible LER solutions using functional block copolymers. Proceedings of SPIE, 2012, , .	0.8	5
56	Hyperbranched polymers for molecular imaging: designing polymers for parahydrogen induced polarisation (PHIP). Chemical Communications, 2012, 48, 1583-1585.	2.2	31
57	Electron-Beam-Induced Freezing of an Aromatic-Based EUV Resist: A Robust Template for Directed Self-Assembly of Block Copolymers. IEEE Nanotechnology Magazine, 2012, 11, 1140-1147.	1.1	7
58	Effect of Solvent Quality on the Solution Properties of Assemblies of Partially Fluorinated Amphiphilic Diblock Copolymers. Macromolecules, 2012, 45, 8681-8690.	2.2	28
59	Hydrophilic and Amphiphilic Polyethylene Glycol-Based Hydrogels with Tunable Degradability Prepared by â€œClickâ€•Chemistry. Biomacromolecules, 2012, 13, 4012-4021.	2.6	96
60	Interactions of iodoperfluorobenzene compounds with gold nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 3604.	1.3	37
61	Molecular imaging with polymers. Polymer Chemistry, 2012, 3, 1384.	1.9	54
62	Control of the Orientation of Symmetric Poly(styrene)-block-poly(<scp>d</scp>,<scp>l</scp>-lactide) Block Copolymers Using Statistical Copolymers of Dissimilar Composition. Langmuir, 2012, 28, 15876-15888.	1.6	53
63	Aqueous developable dual switching photoresists for nanolithography. Journal of Polymer Science Part A, 2012, 50, 4255-4265.	2.5	19
64	Chain scission resists for extreme ultraviolet lithography based on high performance polysulfone-containing polymers. Journal of Materials Chemistry, 2011, 21, 5629.	6.7	36
65	Comment on â€œMultimodal coupling of optical transitions and plasmonic oscillations in rhodamine B modified gold nanoparticlesâ€•by M. Stobiecka and M. Hepel, Phys. Chem. Chem. Phys. 2011, 13, 1131. Physical Chemistry Chemical Physics, 2011, 13, 16444.	1.3	3
66	Multiple Hydrogen-Bonded Complexes Based on 2-Ureido-4[1H]-pyrimidinone: A Theoretical Study. Journal of Physical Chemistry B, 2011, 115, 11053-11062.	1.2	28
67	Controlled polymerisation of lactide using an organo-catalyst in supercritical carbon dioxide. Green Chemistry, 2011, 13, 2032.	4.6	28
68	Effect of nanoholes on the plasmonic properties of star nanostructures. Proceedings of SPIE, 2011, , .	0.8	0
69	Electron beam induced freezing of positive tone, EUV resists for directed self assembly applications. , 2011, , .		4
70	Synthesis of molecularly imprinted organicâ€“inorganic hybrid azobenzene materials by solâ€“gel for radiation induced selective recognition of 2,4-dichlorophenoxyacetic acid. Radiation Physics and Chemistry, 2011, 80, 130-135.	1.4	27
71	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
72	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

#	Article	IF	Citations
73	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
74	Sensitive polysulfone based chain scissioning resists for 193nm lithography. , 2011, , .		1
75	Non-chemically amplified resists for 193-nm immersion lithography: influence of absorbance on performance. Proceedings of SPIE, 2010, , .	0.8	7
76	Polycarbonate based nonchemically amplified photoresists for extreme ultraviolet lithography. Proceedings of SPIE, 2010, , .	0.8	9
77	Patterning of Tailored Polycarbonate Based Nonâ€Chemically Amplified Resists Using Extreme Ultraviolet Lithography. Macromolecular Rapid Communications, 2010, 31, 1449-1455.	2.0	34
78	Novel Supramolecular Hydrogels as Artificial Vitreous Substitutes. Macromolecular Symposia, 2010, 296, 229-232.	0.4	12
79	Functional Hyperbranched Polymers: Toward Targeted in Vivo ¹⁹F Magnetic Resonance Imaging Using Designed Macromolecules. Journal of the American Chemical Society, 2010, 132, 5336-5337.	6.6	168
80	Biomimetic Surface Modification of Honeycomb Films via a â€œGrafting Fromâ€•Approach. Langmuir, 2010, 26, 12748-12754.	1.6	35
81	Interactions of Phenyldithioesters with Gold Nanoparticles (AuNPs): Implications for AuNP Functionalization and Molecular Barcoding of AuNP Assemblies. Langmuir, 2010, 26, 692-701.	1.6	36
82	Synthesis and evaluation of partly fluorinated polyelectrolytes as components in 19F MRI-detectable nanoparticles. Polymer Chemistry, 2010, 1, 1039.	1.9	45
83	High-pressure real-time 129Xe NMR: monitoring of surfactant conformation during the self-assembly of reverse micelles in supercritical carbon dioxide. Chemical Communications, 2010, 46, 2850.	2.2	5
84	Non-CA resists for 193 nm immersion lithography: effects of chemical structure on sensitivity. Proceedings of SPIE, 2009, , .	0.8	9
85	Synthesis and Evaluation of Partly Fluorinated Block Copolymers as MRI Imaging Agents. Biomacromolecules, 2009, 10, 374-381.	2.6	88
86	Development of polymers for non-CAR resists for EUV lithography. , 2009, , .		13
87	Application of quantitative structure property relationship to the design of high refractive index 193i resist. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2008, 7, 023001.	1.0	8
88	Development of an operational high refractive index resist for 193nm immersion lithography. , 2008, , .		7
89	The rational design of polymeric EUV resist materials by QSPR modelling. , 2007, , .		10
90	Novel high-index resists for 193-nm immersion lithography and beyond. , 2007, 6519, 110.		14

#	Article	IF	Citations
91	Status of High-Index Materials for Generation-Three 193nm Immersion Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 643-650.	0.1	12
92	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
93	Self-Assembly and Encoding of Polymer-Stabilized Gold Nanoparticles with Surface-Enhanced Raman Reporter Molecules. Langmuir, 2007, 23, 10539-10545.	1.6	61
94	Use of 9,10-diphenylanthracene as a contrast agent in chemiluminescence imaging: The observation of spreading of oxidative degradation in thin polypropylene films. Polymer Degradation and Stability, 2007, 92, 2102-2109.	2.7	10
95	Chemiluminescence as a Probe of Polymer Oxidation. Australian Journal of Chemistry, 2006, 59, 485.	0.5	23
96	Synthesis of high-refractive index sulfur containing polymers for 193-nm immersion lithography; a progress report. , 2006, 6153, 172.		11
97	Synthesis and Characterisation of Hybrid Polymer-Gold Nanoparticles: Towards Novel Biosensors. , 2006, , .		0
98	Characterisation of hybrid gold-polymer nanoparticles for use in bioassays. , 2006, , .		0
99	High-RI resist polymers for 193 nm immersion lithography. , 2005, 5753, 827.		13
100	XPS and19F NMR Study of the Photodegradation at 157 nm of Photolithographic-Grade Teflon AF Thin Films. Macromolecules, 2005, 38, 4050-4053.	2.2	12
101	Characterisation of grafted supports used for solid-phase synthesis. Polymer International, 2003, 52, 1734-1739.	1.6	4
102	Simultaneous FTIR Emission Spectroscopy and Chemiluminescence of Oxidizing Polypropylene:Â Evidence for Alternate Chemiluminescence Mechanisms. Macromolecules, 2001, 34, 1873-1880.	2.2	41
103	Energy Transfer and Activated Chemiluminescence during Thermal Oxidation of Polypropylene:Â Evidence for Chemically Induced Electron Exchange Luminescence. Macromolecules, 2001, 34, 9130-9138.	2.2	20
104	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
105	Raman spectral mapping of photo-oxidised polypropylene. Polymer Degradation and Stability, 2000, 70, 269-275.	2.7	49