Dermot Diamond

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

344 papers	13,256 citations	59 h-index	97 g-index
359 ext. papers	14,596 ext. citations	6.2 avg, IF	6.56 L-index

#	Paper	IF	Citations
344	Big data and machine learning for materials science. *Discover Materials*, **2021**, 1, 12		16
343	Emerging technologies for autonomous in-situ monitoring of water quality **2021**, 19-55		
342	Stimuli-Controlled Fluid Control and Microvehicle Movement in Microfluidic Channels **2021**, 128-128		
341	A wearable sensor for the detection of sodium and potassium in human sweat during exercise. *Talanta*, **2020**, 219, 121145	6.2	40
340	Direct Laser Writing of Four-Dimensional Structural Color Microactuators Using a Photonic Photoresist. *ACS Nano*, **2020**, 14, 9832-9839	16.7	43
339	3D Printed Sugar-Sensing Hydrogels. *Macromolecular Rapid Communications*, **2020**, 41, e1900610	4.8	3
338	Fully automated, low-cost ion chromatography system for in-situ analysis of nitrite and nitrate in natural waters. *Talanta*, **2020**, 216, 120955	6.2	27
337	Smartphone based meat freshness detection. *Talanta*, **2020**, 216, 120985	6.2	12
336	Integrated 3D printed heaters for microfluidic applications: Ammonium analysis within environmental water. *Analytica Chimica Acta*, **2020**, 1098, 94-101	6.6	20
335	Grand Challenges and Opportunities in Sensor Science and Technology. *Frontiers in Sensors*, **2020**, 1,	1.7	1
334	3D Printing of Metallic Microstructured Mould Using Selective Laser Melting for Injection Moulding of Plastic Microfluidic Devices. *Micromachines*, **2019**, 10,	3.3	12
333	Low cost 235 nm ultra-violet light-emitting diode-based absorbance detector for application in a portable ion chromatography system for nitrite and nitrate monitoring. *Journal of Chromatography A*, **2019**, 1603, 8-14	4.5	17
332	Boronic Acid Homopolymers as Effective Polycations for Sugar-Responsive Layer-by-Layer Assemblies. *ACS Applied Polymer Materials*, **2019**, 1, 990-996	4.3	1
331	Paper based electronic tongue - a low-cost solution for the distinction of sugar type and apple juice brand. *Analyst, The*, **2019**, 144, 2827-2832	5	20
330	Dual Droplet Functionality: Phototaxis and Photopolymerization. *ACS Applied Materials & Interfaces*, **2019**, 11, 31484-31489	9.5	2
329	Real-time Analysis of Electrolytes in Sweat Through a Wearable Sensing Platform. *Proceedings (mdpi)*, **2019**, 15, 14	0.3	2
328	Fabrication of Rugged and Reliable Fluidic Chips for Autonomous Environmental Analyzers Using Combined Thermal and Pressure Bonding of Polymethyl Methacrylate Layers. *ACS Omega*, **2019**, 4, 21131-21140	3.9	1

327	Towards an autonomous microfluidic sensor for dissolved carbon dioxide determination. *Microchemical Journal*, **2018**, 139, 216-221	4.8	3
326	Wearable Platform for Real-time Monitoring of Sodium in Sweat. *ChemPhysChem*, **2018**, 19, 1531-1536	3.2	26
325	Driving flows in microfluidic paper-based analytical devices with a cholinium based poly(ionic liquid) hydrogel. *Sensors and Actuators B: Chemical*, **2018**, 261, 372-378	8.5	19
324	Light-responsive polymers for microfluidic applications. *Lab on A Chip*, **2018**, 18, 699-709	7.2	44
323	Textile chemiresistors with sensitive layers based on polymer ionic liquids: Applicability for detection of toxic gases and chemical warfare agents. *Sensors and Actuators B: Chemical*, **2018**, 266, 830-840	8.5	5
322	Photoswitchable Layer-by-Layer Coatings Based on Photochromic Polynorbornenes Bearing Spiropyran Side Groups. *Langmuir*, **2018**, 34, 4210-4216	4	11
321	A wearable patch for continuous monitoring of sweat electrolytes during exertion. *Lab on A Chip*, **2018**, 18, 2632-2641	7.2	85
320	Miniaturized capillary ion chromatograph with UV light-emitting diode based indirect absorbance detection for anion analysis in potable and environmental waters. *Journal of Separation Science*, **2018**, 41, 3224-3231	3.4	16
319	Moving Droplets in 3D Using Light. *Advanced Materials*, **2018**, 30, e1801821	24	23
318	Micro-Capillary Coatings Based on Spiropyran Polymeric Brushes for Metal Ion Binding, Detection, and Release in Continuous Flow. *Sensors*, **2018**, 18,	3.8	8
317	Reusable ionogel-based photo-actuators in a lab-on-a-disc. *Sensors and Actuators B: Chemical*, **2018**, 257, 963-970	8.5	12
316	Development of a Cost-Effective Sensing Platform for Monitoring Phosphate in Natural Waters. *Chemosensors*, **2018**, 6, 57	4	7
315	Fluorescent Probes for Sugar Detection. *ACS Applied Materials & Interfaces*, **2018**, 10, 38431-38437	9.5	10
314	Fabrication of soft, stimulus-responsive structures with sub-micron resolution via two-photon polymerization of poly(ionic liquid)s. *Materials Today*, **2018**, 21, 807-816	21.8	41
313	Tuning microfluidic flow by pulsed light oscillating spiropyran-based polymer hydrogel valves. *Sensors and Actuators B: Chemical*, **2017**, 245, 81-86	8.5	26
312	A colorimetric method for use within portable test kits for nitrate determination in various water matrices. *Analytical Methods*, **2017**, 9, 680-687	3.2	14
311	Impedance spectroscopy for monosaccharides detection using responsive hydrogel modified paper-based electrodes. *Analyst, The*, **2017**, 142, 1133-1139	5	19
310	Spiropyran based hydrogels actuators Walking in the light. *Sensors and Actuators B: Chemical*, **2017**, 250, 608-616	8.5	75

309	Precision control of flow rate in microfluidic channels using photoresponsive soft polymer actuators. *Lab on A Chip*, **2017**, 17, 2013-2021	7.2	29
308	Water based-ionic liquid carbon dioxide sensor for applications in the food industry. *Sensors and Actuators B: Chemical*, **2017**, 253, 302-309	8.5	23
307	Challenges and opportunities in wearable technology for biochemical analysis in sweat. *Current Opinion in Electrochemistry*, **2017**, 3, 46-50	7.2	39
306	Poly(ionic liquid) thermo-responsive hydrogel microfluidic actuators. *Sensors and Actuators B: Chemical*, **2017**, 247, 749-755	8.5	23
305	Electrotactic ionic liquid droplets. *Sensors and Actuators B: Chemical*, **2017**, 239, 1069-1075	8.5	13
304	Stimuli-Controlled Fluid Control and Microvehicle Movement in Microfluidic Channels **2017**,		1
303	Wearable Sensor for Real-Time Monitoring of Electrolytes in Sweat. *Proceedings (mdpi)*, **2017**, 1, 724	0.3	
302	Stimuli-Controlled Manipulation of Synthetic Micrometre-Sized Vehicles for Bio-Inspired Fluidics. *Proceedings (mdpi)*, **2017**, 1, 750	0.3	
301	Stimuli-Responsive Materials and Biomimetic Fluidics: Fundamental Building Blocks of Chemical Sensing Platforms with Futuristic Capabilities. *Proceedings (mdpi)*, **2017**, 1, 769	0.3	
300	Glucose Sensing for Diabetes Monitoring: Recent Developments. *Sensors*, **2017**, 17,	3.8	369
299	Solvato-morphologically controlled, reversible NIPAAm hydrogel photoactuators. *RSC Advances*, **2016**, 6, 83296-83302	3.7	11
298	Xurography actuated valving for centrifugal flow control. *Lab on A Chip*, **2016**, 16, 3454-9	7.2	24
297	SWEATCH A Wearable Platform for Harvesting and Analysing Sweat Sodium Content. *Electroanalysis*, **2016**, 28, 1283-1289	3	95
296	Porous self-protonating spiropyran-based NIPAAm gels with improved reswelling kinetics. *Journal of Materials Science*, **2016**, 51, 1392-1399	4.3	29
295	Autonomous reagent-based microfluidic pH sensor platform. *Sensors and Actuators B: Chemical*, **2016**, 225, 369-376	8.5	29
294	An integrated sensing and wireless communications platform for sensing sodium in sweat. *Analytical Methods*, **2016**, 8, 64-71	3.2	52
293	A Wearable Device for Monitoring Sweat Rates via Image Analysis. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 1672-80	5	31
292	Screen-printed electrodes for environmental monitoring of heavy metal ions: a review. *Mikrochimica Acta*, **2016**, 183, 503-517	5.8	166

291	Opto-Smart Systems in Microfluidics. *Advances in Chemical and Materials Engineering Book Series*, **2016**, 265-288	0.2	1
290	Medical applications of smart textiles **2016**, 215-237		10
289	Poly(Ionic Liquid) Semi-Interpenetrating Network Multi-Responsive Hydrogels. *Sensors*, **2016**, 16, 219	3.8	23
288	Combining Remote Temperature Sensing with in-Situ Sensing to Track Marine/Freshwater Mixing Dynamics. *Sensors*, **2016**, 16,	3.8	16
287	Adaptive coatings based on polyaniline for direct 2D observation of diffusion processes in microfluidic systems. *Sensors and Actuators B: Chemical*, **2016**, 231, 744-751	8.5	6
286	Solid-phase test reagent for determination of nitrite and nitrate. *Analytical Methods*, **2016**, 8, 6520-6528	3.2	4
285	A sleep bruxism detection system based on sensors in a splint - pilot clinical data. *Journal of Oral Rehabilitation*, **2015**, 42, 34-9	3.4	13
284	Molecular Design of Light-Responsive Hydrogels, For in Situ Generation of Fast and Reversible Valves for Microfluidic Applications. *Chemistry of Materials*, **2015**, 27, 5925-5931	9.6	116
283	Enhanced Antifouling Properties of Carbohydrate Coated Poly(ether sulfone) Membranes. *ACS Applied Materials & Interfaces*, **2015**, 7, 17238-46	9.5	24
282	Development of a low cost microfluidic sensor for the direct determination of nitrate using chromotropic acid in natural waters. *Analytical Methods*, **2015**, 7, 5396-5405	3.2	24
281	A low-cost autonomous optical sensor for water quality monitoring. *Talanta*, **2015**, 132, 520-7	6.2	57
280	**2015**,		1
279	Wearable chemical sensors: Characterization of heart rate electrodes using electrochemical impedance spectroscopy **2015**,		2
278	Self-propelled chemotactic ionic liquid droplets. *Chemical Communications*, **2015**, 51, 2342-4	5.8	26
277	Solid-Contact Ion-Selective Electrodes (ISEs) based on Ligand Functionalised Gold Nanoparticles. *Electrochimica Acta*, **2015**, 159, 158-165	6.7	14
276	Advances in wearable chemical sensor design for monitoring biological fluids. *Sensors and Actuators B: Chemical*, **2015**, 211, 403-418	8.5	204
275	A liquid-junction-free reference electrode based on a PEDOT solid-contact and ionogel capping membrane. *Talanta*, **2014**, 125, 58-64	6.2	23
274	Self-assembled solvato-morphologically controlled photochromic crystals. *Chemical Communications*, **2014**, 50, 924-6	5.8	18

273	Ionic liquid modulation of swelling and LCST behavior of N-isopropylacrylamide polymer gels. *Physical Chemistry Chemical Physics*, **2014**, 16, 3610-6	3.6	28
272	Probing the specific ion effects of biocompatible hydrated choline ionic liquids on lactate oxidase biofunctionality in sensor applications. *Physical Chemistry Chemical Physics*, **2014**, 16, 1841-9	3.6	26
271	Photo-chemopropulsion--light-stimulated movement of microdroplets. *Advanced Materials*, **2014**, 26, 7339-45	24	50
270	The development of an autonomous sensing platform for the monitoring of ammonia in water using a simplified Berthelot method. *Analytical Methods*, **2014**, 6, 7606-7614	3.2	26
269	Modular microfluidic valve structures based on reversible thermoresponsive ionogel actuators. *Lab on A Chip*, **2014**, 14, 3530-8	7.2	48
268	Photoswitchable ratchet surface topographies based on self-protonating spiropyran-NIPAAM hydrogels. *ACS Applied Materials & Interfaces*, **2014**, 6, 7268-74	9.5	59
267	Synthesis and Characterization of 1-Vinylimidazolium Alkyl Sulfate Polymeric Ionic Liquids. *Macromolecular Chemistry and Physics*, **2014**, 215, 1889-1895	2.6	6
266	Smartphone-based simultaneous pH and nitrite colorimetric determination for paper microfluidic devices. *Analytical Chemistry*, **2014**, 86, 9554-62	7.8	288
265	A potentiometric disposable sensor strip for measuring pH in saliva. *Electrochimica Acta*, **2014**, 132, 292-296	4.7	45
264	COMMON SENSE: Cost-effective sensors, interoperable with international existing ocean observing systems, to meet EU policies requirements **2014**,		2
263	Swelling and shrinking properties of thermo-responsive polymeric ionic liquid hydrogels with embedded linear pNIPAAM. *International Journal of Molecular Sciences*, **2014**, 15, 5337-49	6.3	19
262	Advances in three-dimensional rapid prototyping of microfluidic devices for biological applications. *Biomicrofluidics*, **2014**, 8, 052112	3.2	94
261	On-Body Chemo/Bio-Sensing - Opportunities and Challenges. *Advances in Science and Technology*, **2014**, 96, 78-88	0.1	
260	Characteristics of a Piezo-Resistive Fabric Stretch Sensor Glove for Home-Monitoring of Rheumatoid Arthritis **2014**,		9
259	Wearable Bio and Chemical Sensors **2014**, 65-83		20
258	A portable centrifugal analyser for liver function screening. *Biosensors and Bioelectronics*, **2014**, 56, 352-8	11.8	52
257	Swelling and shrinking behaviour of photoresponsive phosphonium-based ionogel microstructures. *Sensors and Actuators B: Chemical*, **2014**, 194, 105-113	8.5	35
256	Self-protonating spiropyran-co-NIPAM-co-acrylic acid hydrogel photoactuators. *Soft Matter*, **2013**, 9, 8754	3.6	72

255	CMAS: fully integrated portable centrifugal microfluidic analysis system for on-site colorimetric analysis. *RSC Advances*, **2013**, 3, 15928	3.7	34
254	Integrated flow analysis platform for the direct detection of nitrate in water using a simplified chromotropic acid method. *Analytical Methods*, **2013**, 5, 4798	3.2	19
253	Optical switching of protein interactions on photosensitive-electroactive polymers measured by atomic force microscopy. *Journal of Materials Chemistry B*, **2013**, 1, 2162-2168	7.3	9
252	Thermoresponsive poly(ionic liquid) hydrogels. *Chemical Communications*, **2013**, 49, 10308-10	5.8	42
251	Fast prototyping of paper-based microfluidic devices by contact stamping using indelible ink. *RSC Advances*, **2013**, 3, 18811	3.7	63
250	Polyaniline coated micro-capillaries for continuous flow analysis of aqueous solutions. *Analytica Chimica Acta*, **2013**, 759, 1-7	6.6	12
249	Spiropyran polymeric microcapillary coatings for photodetection of solvent polarity. *Langmuir*, **2013**, 29, 2790-7	4	54
248	Portable integrated microfluidic analytical platform for the monitoring and detection of nitrite. *Talanta*, **2013**, 116, 997-1004	6.2	43
247	Dynamic pH mapping in microfluidic devices by integrating adaptive coatings based on polyaniline with colorimetric imaging techniques. *Lab on A Chip*, **2013**, 13, 1079-85	7.2	38
246	Mechanical Properties and UV Curing Behavior of Poly(N-Isopropylacrylamide) in Phosphonium-Based Ionic Liquids. *Macromolecular Chemistry and Physics*, **2013**, 214, 787-796	2.6	17
245	Temperature and pH triggered release characteristics of water/fluorescein from 1-ethyl-3-methylimidazolium ethylsulfate based ionogels. *Chemical Communications*, **2013**, 49, 4613-5	5.8	15
244	A merocyanine-based conductive polymer. *Journal of Materials Chemistry C*, **2013**, 1, 3913	7.1	12
243	An electrochromic ionic liquid: design, characterization, and performance in a solid-state platform. *ACS Applied Materials & Interfaces*, **2013**, 5, 55-62	9.5	70
242	Portable X-Ray Fluorescence as a Rapid Technique for Surveying Elemental Distributions in Soil. *Spectroscopy Letters*, **2013**, 46, 516-526	1.1	24
241	Ion selective electrodes in environmental analysis. *Journal of the Serbian Chemical Society*, **2013**, 78, 1729-1761	0.9	34
240	Integrating stimulus responsive materials and microfluidics: The key to next-generation chemical sensors. *Journal of Intelligent Material Systems and Structures*, **2013**, 24, 2221-2238	2.3	20
239	Disposable solid-contact ion-selective electrodes for environmental monitoring of lead with ppb limit-of-detection. *Electrochimica Acta*, **2012**, 73, 93-97	6.7	43
238	Bayesian Methods for Ion Selective Electrodes. *Electroanalysis*, **2012**, 24, 316-324	3	10

237	Opportunities and challenges of using ion-selective electrodes in environmental monitoring and wearable sensors. *Electrochimica Acta*, **2012**, 84, 29-34	6.7	82
236	Organic electrochemical transistor incorporating an ionogel as a solid state electrolyte for lactate sensing. *Journal of Materials Chemistry*, **2012**, 22, 4440		203
235	Synthesis and characterisation of spiropyran-polymer brushes in micro-capillaries: Towards an integrated optical sensor for continuous flow analysis. *Sensors and Actuators B: Chemical*, **2012**, 175, 92-99	8.5	39
234	Photo-Responsive Polymeric Structures Based on Spiropyran. *Macromolecular Materials and Engineering*, **2012**, 297, 1148-1159	3.9	87
233	Real-time sweat pH monitoring based on a wearable chemical barcode micro-fluidic platform incorporating ionic liquids. *Sensors and Actuators B: Chemical*, **2012**, 171-172, 1327-1334	8.5	141
232	Magnetic Ionogels (MagIGs) Based on Iron Oxide Nanoparticles, Poly(N-isopropylacrylamide), and the Ionic Liquid Trihexyl(tetradecyl)phosphonium Dicyanamide. *European Journal of Inorganic Chemistry*, **2012**, 2012, 5245-5251	2.3	10
231	Distributed Environmental Monitoring. *Springer Series on Chemical Sensors and Biosensors*, **2012**, 321-363	2	1
230	Concept and development of an autonomous wearable micro-fluidic platform for real time pH sweat analysis. *Sensors and Actuators B: Chemical*, **2012**, 175, 263-270	8.5	85
229	Stimuli responsive ionogels for sensing applications-an overview. *Membranes*, **2012**, 2, 16-39	3.8	60
228	Optical sensing system based on wireless paired emitter detector diode device and ionogels for lab-on-a-disc water quality analysis. *Lab on A Chip*, **2012**, 12, 5069-78	7.2	50
227	Physicochemical study of spiropyran-terthiophene derivatives: photochemistry and thermodynamics. *Physical Chemistry Chemical Physics*, **2012**, 14, 9112-20	3.6	11
226	Graphene-doped photo-patternable ionogels: tuning of conductivity and mechanical stability of 3D microstructures. *Journal of Materials Chemistry*, **2012**, 22, 10552		20
225	Increased response/recovery lifetimes and reinforcement of polyaniline nanofiber films using carbon nanotubes. *Carbon*, **2012**, 50, 1447-1454	10.4	26
224	Recent Progress in Disposable Ion-Selective Sensors for Environmental Applications. *Advances in Science and Technology*, **2012**, 77, 65-70	0.1	4
223	Photo-patternable hybrid ionogels for electrochromic applications. *Journal of Materials Chemistry*, **2011**, 21, 8687		37
222	A two-component polymeric optode membrane based on a multifunctional ionic liquid. *Analyst, The* , **2011**, 136, 348-53	5	19
221	Photo-Detection of Solvent Polarities using Non-Invasive Coatings in Capillaries. *Procedia Engineering*, **2011**, 25, 1545-1548		5
220	A multiswitchable poly(terthiophene) bearing a spiropyran functionality: understanding photo- and electrochemical control. *Journal of the American Chemical Society*, **2011**, 133, 5453-62	16.4	86

219	Polyaniline nanofibres as templates for the covalent immobilisation of biomolecules. *Synthetic Metals*, **2011**, 161, 285-292	3.6	17
218	Wireless radio frequency detection of greatly simplified polymeric membranes based on a multifunctional ionic liquid. *Electrochimica Acta*, **2011**, 56, 8947-8953	6.7	3
217	Ionic Liquid-Based, Liquid-Junction-Free Reference Electrode. *Electroanalysis*, **2011**, 23, 1881-1890	3	42
216	In Situ one-step electrochemical preparation of graphene oxide nanosheet-modified electrodes for biosensors. *ChemSusChem*, **2011**, 4, 1587-91	8.3	63
215	Polymerisation and surface modification of methacrylate monoliths in polyimide channels and polyimide coated capillaries using 660 nm light emitting diodes. *Journal of Chromatography A*, **2011**, 1218, 2954-62	4.5	21
214	Electronic structure calculations and physicochemical experiments quantify the competitive liquid ion association and probe stabilisation effects for nitrobenzospiropyran in phosphonium-based ionic liquids. *Physical Chemistry Chemical Physics*, **2011**, 13, 6156-68	3.6	16
213	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. *Carbon*, **2011**, 49, 3488-3496	10.4	239
212	Electrodeposition and pseudocapacitive properties of tungsten oxide/polyaniline composite. *Journal of Power Sources*, **2011**, 196, 4842-4848	8.9	104
211	The optimisation of a paired emitter□detector diode optical pH sensing device. *Sensors and Actuators B: Chemical*, **2011**, 153, 182-187	8.5	12
210	Autonomous analyser platforms for remote monitoring of water quality **2011**,		2
209	Modified Polyaniline Nanofibres for Ascorbic Acid Detection. *Materials Research Society Symposia Proceedings*, **2011**, 1312, 1		1
208	Electrochemical transistors with ionic liquids for enzymatic sensing **2011**,		1
207	Wearable electrochemical sensors for monitoring performance athletes **2011**,		10
206	Web-based monitoring of year-length deployments of autonomous gas sensing platforms on landfill sites **2011**,		2
205	. *IEEE Sensors Journal*, **2011**, 11, 2374-2382	4	20
204	Remote real-time monitoring of subsurface landfill gas migration. *Sensors*, **2011**, 11, 6603-28	3.8	13
203	Incorporation of Acrylate Based Spiropyran Monoliths in Micro-Fluidic Devices for Photo-Controlled Electroosmotic Flow. *Advances in Science and Technology*, **2010**, 76, 100-105	0.1	2
202	On-Body Chemical Sensors for Monitoring Sweat. *Lecture Notes in Electrical Engineering*, **2010**, 177-193	0.2	6

201	The use of scanning contactless conductivity detection for the characterisation of stationary phases in micro-fluidic chips. *Lab on A Chip*, **2010**, 10, 1777-80	7.2	12
200	Photochromic imidazolium based ionic liquids based on spiropyran. *Physical Chemistry Chemical Physics*, **2010**, 12, 7009-17	3.6	19
199	In situ monitoring of environmental water quality using an autonomous microfluidic sensor **2010**,		8
198	Dual contactless conductivity and amperometric detection on hybrid PDMS/glass electrophoresis microchips. *Analyst, The*, **2010**, 135, 96-103	5	54
197	Ionogel-based light-actuated valves for controlling liquid flow in micro-fluidic manifolds. *Lab on A Chip*, **2010**, 10, 195-201	7.2	91
196	Electrochemical transistors with ionic liquids for enzymatic sensing. *Chemical Communications*, **2010**, 46, 7972-4	5.8	96
195	Biomimetics and materials with multiple personalities - The foundation of next generation molecular sensing devices **2010**,		1
194	A wearable electrochemical sensor for the real-time measurement of sweat sodium concentration. *Analytical Methods*, **2010**, 2, 342	3.2	188
193	Sweat-on-a-chip Analysing sweat in real time with disposable micro-devices **2010**,		2
192	Diagnostic of functionality of polymer membrane based ion selective electrodes by impedance spectroscopy. *Analytical Methods*, **2010**, 2, 1490	3.2	36
191	Simple Barcode System Based on Inonogels for Real Time pH-Sweat Monitoring **2010**,		3
190	Designer molecular probes for phosphonium ionic liquids. *Physical Chemistry Chemical Physics*, **2010**, 12, 1895-904	3.6	19
189	Optically addressable single-use microfluidic valves by laser printer lithography. *Lab on A Chip*, **2010**, 10, 2680-7	7.2	77
188	Photoreversible ion-binding using spiropyran modified silica microbeads. *International Journal of Nanomanufacturing*, **2010**, 5, 38	0.7	7
187	Fibers and Fabrics for Chemical and Biological Sensing. *Research Journal of Textile and Apparel*, **2010**, 14, 63-72	1.1	8
186	Covalent attachment of functional side-groups to polyaniline nanofibres. *International Journal of Nanomanufacturing*, **2010**, 5, 88	0.7	12
185	The increasing importance of carbon nanotubes and nanostructured conducting polymers in biosensors. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 1575-89	4.4	70
184	Development of miniature all-solid-state potentiometric sensing system. *Sensors and Actuators B: Chemical*, **2010**, 146, 199-205	8.5	71

183	Electrochemical codeposition of nickel oxide and polyaniline. *Journal of Solid State Electrochemistry* , **2010**, 14, 1-7	2.6	28
182	BIOTEX--biosensing textiles for personalised healthcare management. *IEEE Transactions on Information Technology in Biomedicine*, **2010**, 14, 364-70		238
181	Development of wireless bruxism monitoring device based on pressure-sensitive polymer composite. *Sensors and Actuators A: Physical*, **2010**, 163, 486-492	3.9	7
180	Electrochemical synthesis of WO3/PANI composite for electrocatalytic reduction of iodate. *Electrochimica Acta*, **2010**, 55, 3915-3920	6.7	55
179	Humidity sensors based on polyaniline nanofibres. *Sensors and Actuators B: Chemical*, **2010**, 143, 530-534	8.5	132
178	Photochromic spiropyran monolithic polymers: Molecular photo-controllable electroosmotic pumps for micro-fluidic devices. *Sensors and Actuators B: Chemical*, **2010**, 148, 569-576	8.5	12
177	Wireless aquatic navigator for detection and analysis (WANDA). *Sensors and Actuators B: Chemical*, **2010**, 150, 425-435	8.5	17
176	Characterisation and analytical potential of a photo-responsive polymeric material based on spiropyran. *Biosensors and Bioelectronics*, **2010**, 26, 1392-8	11.8	36
175	Materials science and the sensor revolution. *Materials Today*, **2010**, 13, 16-23	21.8	42
174	Photoswitchable Stationary Phase Based on Packed Spiropyran Functionalized Silica Microbeads. *E-Journal of Surface Science and Nanotechnology*, **2009**, 7, 649-652	0.7	4
173	Controllable Chemical Modification of Polyaniline Nanofibres. *Materials Research Society Symposia Proceedings*, **2009**, 1240, 1		1
172	Schizophrenie Molecules and Materials with Multiple Personalities - How Materials Science could Revolutionise How we do Chemical Sensing. *Materials Research Society Symposia Proceedings*, **2009**, 1190, 126		1
171	Molecules with Multiple Personalities: How Switchable Materials Could Revolutionize Chemical Sensing. *ECS Transactions*, **2009**, 19, 199-210	1	3
170	Novel synthesis and characterisation of 3,3-dimethyl-5?-(2-benzothiazolyl)-spironaphth(indoline-2,3?-[3H]naphth[2,1-b] [1,4]oxazine) derivatives. *Tetrahedron Letters*, **2009**, 50, 2573-2576	2	16
169	Comparison of soil pollution concentrations determined using AAS and portable XRF techniques. *Journal of Hazardous Materials*, **2009**, 171, 1168-71	12.8	171
168	pH-controlled morphological structure of polyaniline during electrochemical deposition. *Electrochimica Acta*, **2009**, 54, 6172-6177	6.7	48
167	Non-linear carbon dioxide determination using infrared gas sensors and neural networks with Bayesian regularization. *Sensors and Actuators B: Chemical*, **2009**, 136, 242-247	8.5	13
166	Bio-sensing textile based patch with integrated optical detection system for sweat monitoring. *Sensors and Actuators B: Chemical*, **2009**, 139, 231-236	8.5	161

165	Spiropyran modified micro-fluidic chip channels as photonically controlled self-indicating system for metal ion accumulation and release. *Sensors and Actuators B: Chemical*, **2009**, 140, 295-303	8.5	36
164	Spiropyran-based reversible, light-modulated sensing with reduced photofatigue. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 206, 109-115	4.7	63
163	Pump Less Wearable Microfluidic Device for Real Time pH Sweat Monitoring. *Procedia Chemistry*, **2009**, 1, 1103-1106		32
162	Inkjet printed LED based pH chemical sensor for gas sensing. *Analytica Chimica Acta*, **2009**, 652, 308-14	6.6	34
161	Photochromism of nitrobenzospiropyran in phosphonium based ionic liquids. *Physical Chemistry Chemical Physics*, **2009**, 11, 7286-91	3.6	21
160	Controlled transport of droplets using conducting polymers. *Langmuir*, **2009**, 25, 11137-41	4	30
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