Michael C Petty

List of Publications by Year
in descending order

333 papers	9,349 citations	53789 45 h-index	79691 73 g-index
341 all docs	341 docs citations	341 times ranked	7445 citing authors

#	Article	IF	Citations
1	Langmuirâ"Blodgett Film Deposition of Metallic Nanoparticles and Their Application to Electronic Memory Structures. Nano Letters, 2003, 3, 533-536.	9.1	279
2	Polyaniline thin films for gas sensing. Sensors and Actuators B: Chemical, 1995, 28, 173-179.	7.8	273
3	The preparation and properties of stable metal-free phthalocyanine Langmuir-Blodgett films. Thin Solid Films, 1983, 99, 53-59.	1.8	200
4	An Efficient Pyridine- and Oxadiazole-Containing Hole-Blocking Material for Organic Light-Emitting Diodes:â€‰ Synthesis, Crystal Structure, and Device Performance. Chemistry of Materials, 2001, 13, 1167-1173.	6.7	149
5	Electrically conductive Langmuirâ€"Blodgett films of charge-transfer materials. Nature, 1995, 374, 771-776.	27.8	147
6	Second-harmonic generation in mixed hemicyanine: fatty-acid Langmuirâ€"Blodgett monolayers. Journal of the Optical Society of America B: Optical Physics, 1987, 4, 950.	2.1	131
7	Chemosensor devices: voltammetric molecular recognition at solid interfaces. Journal of Materials Chemistry, 1999, 9, 1957-1974.	6.7	127
8	New electroluminescent bipolar compounds for balanced charge-transport and tuneable colour in organic light emitting diodes: triphenylamineâ€"oxadiazoleâ€"fluorene triad molecules. Journal of Materials Chemistry, 2006, 16, 3823-3835.	6.7	122
9	Inkjet-printed polypyrrole thin films for vapour sensing. Sensors and Actuators B: Chemical, 2006, 115, 547-551.	7.8	117
10	New electron-transporting materials for light emitting diodes: 1,3,4-oxadiazoleâ€"pyridine and 1,3,4-oxadiazoleâ€"pyrimidine hybrids. Journal of Materials Chemistry, 2002, 12, 173-180.	6.7	116
11	Efficient Deep-Blue Electroluminescence from an Ambipolar Fluorescent Emitter in a Single-Active-Layer Device. Chemistry of Materials, 2011, 23, 1640-1642.	6.7	112
12	Electronic devices incorporating stable phthalocyanine Langmuir-Blodgett films. Thin Solid Films, 1985, 132, 113-123.	1.8	108
13	A Covalent Tetrathiafulvaleneâ€"Tetracyanoquinodimethane Diad: Extremely Low HOMOâ€"LUMO Gap, Thermoexcited Electron Transfer, and High-Quality Langmuirâ€"Blodgett Films. Angewandte Chemie - International Edition, 2003, 42, 4636-4639.	13.8	104
14	An optical gas sensor based on polyaniline Langmuir-Blodgett films. Sensors and Actuators B: Chemical, 1997, 41, 137-141.	7.8	101
15	Vapour recognition using organic films and artificial neural networks. Sensors and Actuators B: Chemical, 1994, 17, 143-147.	7.8	100
16	Hybrid siliconâ€"organic nanoparticle memory device. Journal of Applied Physics, 2003, 94, 5234.	2.5	96
17	Effect of composition on the electrical conductance of milk. Journal of Food Engineering, 2003, 60, 321-325.	5.2	94
18	Second harmonic generation from LB superlattices containing two active components. Electronics Letters, 1986, 22, 460.	1.0	91

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19	Possible applications for Langmuir-Blodgett films. Thin Solid Films, 1992, 210-211, 417-426.	1.8	91
20	Cation Recognition by Self-Assembled Layers of Novel Crown-Annelated Tetrathiafulvalenes. Advanced Materials, 1998, 10, 395-398.	21.0	87
21	Pentacene thin film transistors with a poly(methyl methacrylate) gate dielectric: Optimization of device performance. Journal of Applied Physics, 2009, 105, .	2.5	87
22	Direct Nanoscale Imaging of Ballistic and Diffusive Thermal Transport in Graphene Nanostructures. Nano Letters, 2012, 12, 2906-2911.	9.1	87
23	Colour tuning of blue electroluminescence using bipolar carbazoleâ€“oxadiazole molecules in single-active-layer organic light emitting devices (OLEDs). Journal of Materials Chemistry, 2012, 22, 11816.	6.7	79
24	A Comparative Study of the Electrochemical Properties of Dipâ€Coated, Spun, and Langmuirâ€Blodgett Films of Polyaniline. Journal of the Electrochemical Society, 1994, 141, 1573-1576.	2.9	76
25	New 2,5-diaryl-1,3,4-oxadiazoleâ€“fluorene hybrids as electron transporting materials for blended-layer organic light emitting diodes. Journal of Materials Chemistry, 2005, 15, 194-203.	6.7	74
26	Langmuir-Blodgett films of C60. Thin Solid Films, 1992, 209, 150-152.	1.8	72
27	Langmuir monolayers and Langmuir-Blodgett multilayers containing macrocyclic ionophores. Advanced Materials, 1996, 8, 615-630.	21.0	71
28	Surface plasmon resonance studies of gas effects in phthalocyanine Langmuir-Blodgett films. Thin Solid Films, 1988, 160, 431-443.	1.8	65
29	A pentacene-based organic thin film memory transistor. Applied Physics Letters, 2009, 94, .	3.3	64
30	Synthesis, Characterization, and Processing of New Electroactive and Photoactive Polyesters Derived from Oligothiophenes. Chemistry of Materials, 1997, 9, 2815-2821.	6.7	63
31	A novel technique for the detection of added water to full fat milk using single frequency admittance measurements. Sensors and Actuators B: Chemical, 2003, 96, 215-218.	7.8	63
32	An optical sensor for nitrogen dioxide based on a copper phthalocyanine Langmuirâ€”Blodgett film. Sensors and Actuators B: Chemical, 1990, 2, 265-269.	7.8	61
33	Monolayer films of a substituted silicon phthalocyanine. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1986, 53, 105-113.	0.6	60
34	A Langmuir trough for the production of organic superlattices. Thin Solid Films, 1985, 134, 83-88.	1.8	59
35	New Crown Annelated Tetrathiafulvalenes:Â Synthesis, Electrochemistry, Self-Assembly of Thiol Derivatives, and Metal Cation Recognition. Journal of Organic Chemistry, 2000, 65, 8269-8276.	3.2	57
36	Solubilization of Polyelectrolytic Hairy-Rod Polyfluorene in Aqueous Solutions of Nonionic Surfactant. Journal of Physical Chemistry B, 2006, 110, 10248-10257.	2.6	57

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37	The fluorine gauche effect. Langmuir isotherms report the relative conformational stability of (Â±)-erythro- and (Â±)-threo-9,10-difluorostearic acidsElectronic supplementary information (ESI) available: characterisation of compounds 4, 5, 7â€“9, 11â€“13. See http://www.rsc.org/suppdata/cc/b2/b202891c/. Chemical Communications, 2002, , 1226-1227.	4.1	56
38	Spontaneous polarization in organic superlattices. Applied Physics Letters, 1986, 48, 1101-1103.	3.3	55
39	A highly conducting tetrathiafulvalene Langmuir-Blodgett film. Thin Solid Films, 1988, 165, L97-L100.	1.8	55
40	Fourier transform infrared studies of molecular ordering and interactions in Langmuir-Blodgett films containing nitrostilbene and stearic acid. Langmuir, 1992, 8, 257-261.	3.5	54
41	Inkjet-Printed Polymer Films for the Detection of Organic Vapors. IEEE Sensors Journal, 2006, 6, 1435-1444.	4.7	52
42	Control of droplet morphology for inkjet-printed TIPS-pentacene transistors. Microelectronic Engineering, 2012, 95, 1-4.	2.4	50
43	The fluorescence of perylene-doped Langmuirâ€"Blodgett films. Chemical Physics Letters, 1990, 173, 425-429.	2.6	49
44	Synthesis of Monofunctionalized Tetrathiafulvalene (TTF) Derivatives by Reactions of Tetrathiafulvalenyllithium with Electrophiles: X-ray Crystal Structures of Four TTF Derivatives Bearing Amide, Thioamide, and Thioester Substituents. Chemistry of Materials, 1994, 6, 1419-1425.	6.7	49
45	Optical and Electrochemical Properties of Metallophthalocyanine Derivative Langmuirâ^'Blodgett Films. Langmuir, 1996, 12, 472-476.	3.5	49
46	An infrared study of the incorporation of ion channel forming peptides into Langmuir-Blodgett films of phosphatidic acid. Langmuir, 1992, 8, 3043-3050.	3.5	46
47	Photo- and electroluminescence of poly(2-methoxy,5-(2â€²-ethylhexyloxy)-p-phenylene vinylene) Langmuir-Blodgett films. Synthetic Metals, 1998, 94, 285-289.	3.9	45
48	Organic vapour sensing using thin films of a co-ordination polymer: comparison of electrical and optical techniques. Sensors and Actuators B: Chemical, 1999, 57, 28-34.	7.8	45
49	IR studies of pyroelectric Langmuir-Blodgett films. Thin Solid Films, 1987, 155, 187-195.	1.8	44
50	On the formation of Langmuir-Blodgett films containing enzymes. Thin Solid Films, 1989, 176, 151-156.	1.8	44
51	Infrared studies of valinomycin-containing Langmuir-Blodgett films. Langmuir, 1989, 5, 330-332.	3.5	44
52	Langmuir-blodgett films of polyaniline. Synthetic Metals, 1993, 57, 3789-3794.	3.9	44
53	An inkjet-printed chemical fuse. Applied Physics Letters, 2005, 86, 013507.	3.3	44
54	The morphology, electrical conductivity and vapour sensing ability of inkjet-printed thin films of single-wall carbon nanotubes. Carbon, 2009, 47, 752-757.	10.3	43

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55	Surface plasmon resonance of self-assembled phthalocyanine monolayers: possibilities for optical gas sensing. Analyst, The, 1996, 121, 1501.	3.5	42
56	Toluene vapour sensing using copper and nickel phthalocyanine Langmuir-Blodgett films. Thin Solid Films, 1996, 284-285, 98-101.	1.8	42
57	Blue organic light emitting devices with improved colour purity and efficiency through blending of poly(9,9-dioctyl-2,7-fluorene) with an electron transporting material. Journal of Materials Chemistry, 2007, 17, 2996.	6.7	42
58	Monolayer and Multilayer Films of Cyclodextrins Substituted with Two and Three Alkyl Chains. Langmuir, 1995, 11, 3997-4000.	3.5	41
59	Application of electrical admittance measurements to the quality control of milk. Sensors and Actuators B: Chemical, 2002, 84, 136-141.	7.8	41
60	UVâ€Assisted Low Temperature Oxide Dielectric Films for TFT Applications. Advanced Materials Interfaces, 2014, 1, 1400206.	3.7	41
61	The preparation and dielectric properties of polybutadiene Langmuir-Blodgett films. Thin Solid Films, 1985, 134, 75-82.	1.8	40
62	Organic light-emitting diodes based on a blend of poly[2-(2-ethylhexyloxy)-5-methoxy-1,4-phenylenevinylene] and an electron transporting material. Applied Physics Letters, 2004, 85, 1283-1285.	3.3	40
63	Electronic memory device based on a single-layer fluorene-containing organic thin film. Applied Physics Letters, 2007, 91, 123506.	3.3	40
64	Cadmium telluride/Langmuir film photovoltaic structures. Electronics Letters, 1980, 16, 201.	1.0	38
65	Electroluminescence in GaP/Langmuir-Blodgett film metal/insulator/semiconductor diodes. Thin Solid Films, 1983, 99, 283-290.	1.8	38
66	Synthesis of Novel Bis- and Tris(tetrathiafulvalene) Amphiphiles for Use in Langmuir-Blodgett Film Deposition. Synthesis, 1994, 1994, 613-618.	2.3	38
67	Organic bistable devices utilizing carbon nanotubes embedded in poly(methyl methacrylate). Journal of Applied Physics, 2012, 112, .	2.5	38
68	Langmuir-Blodgett film metal/insulator/ semiconductor structures on narrow band gap semiconductors. Thin Solid Films, 1983, 99, 291-296.	1.8	37
69	Fourier transform IR studies of alternate layer acid-amine Langmuir-Blodgett films with pyroelectric properties. Thin Solid Films, 1988, 159, 461-467.	1.8	37
70	Langmuir-Blodgett films of 1-t-butyl-9-hydrofullerene-60. Thin Solid Films, 1993, 230, 73-77.	1.8	37
71	Electroactive langmuir-blodgett films of N-octadecylpyridinium-TCNQ charge-transfer salt. Synthetic Metals, 1987, 22, 185-189.	3.9	36
72	Electro- and Photochemistry of 13-Membered Azocrowns in Solution and as Langmuirâ"Blodgett Films. Langmuir, 1998, 14, 1236-1241.	3.5	36

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73	Influence of Molecular Weight on the Surface Morphology of Aligned, Branched Side-Chain Polyfluorene. Advanced Functional Materials, 2005, 15, 1517-1522.	14.9	36
74	Passband filters for terahertz radiation based on dual metallic photonic structures. Applied Physics Letters, 2007, 91, 161115.	3.3	36
75	Memory effects in hybrid silicon-metallic nanoparticle-organic thin film structures. Organic Electronics, 2008, 9, 816-820.	2.6	36
76	Electronic, structural and spectroscopic properties of Langmuir-Blodgett films of (o-hexadecylthiocarboxy)tetrathiafulvalene (HDTTTF). Chemistry of Materials, 1992, 4, 724-728.	6.7	35
77	Electroless deposition of multi-functional zinc oxide surfaces displaying photoconductive, superhydrophobic, photowetting, and antibacterial properties. Journal of Materials Chemistry, 2012, 22, 3859.	6.7	35
78	Electrical investigations of layer-by-layer films of carbon nanotubes. Journal Physics D: Applied Physics, 2006, 39, 3077-3085.	2.8	34
79	Observation of perylene excimers in Langmuirâ€"Blodgett films. Chemical Physics Letters, 1991, 184, 235-238.	2.6	32
80	A field effect transistor based on Langmuir-Blodgett films of an Ni(dmit)2 charge transfer complex. Thin Solid Films, 1994, 244, 932-935.	1.8	32
81	Gas sensing using thin organic films. Biosensors and Bioelectronics, 1995, 10, 129-134.	10.1	32
82	Pyroelectric Langmuir-Blodgett films prepared using preformed polymers. Journal Physics D: Applied Physics, 1992, 25, 1032-1035.	2.8	31
83	Highly Conducting Langmuir-Blodgett films of an amphiphilic Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) derivative: BEDT-TTF-C18H37. Chemistry of Materials, 1994, 6, 1426-1431.	6.7	31
84	A hybrid phthalocyanine/silicon field-effect transistor sensor for NO2. Thin Solid Films, 1996, 284-285, 94-97.	1.8	31
85	Pooleâ€"Frenkel conduction in single wall carbon nanotube composite films built up by electrostatic layer-by-layer deposition. Journal of Applied Physics, 2008, 104, .	2.5	31
86	GaP/phthalocyanine Langmuirâ€"Blodgett film electroluminescent diode. Electronics Letters, 1984, 20, 489.	1.0	30
87	Gas sensing using Langmuir-Blodgett films of a ruthenium porphyrin. Sensors and Actuators B: Chemical, 1993, 12, 111-114.	7.8	30
88	Semiconducting Langmuirâ€"Blodgett films of non-amphiphilic ethylenedithioâ€"tetrathiafulvalene derivatives bearing pyridine and pyridinium substituents. Journal of the Chemical Society Chemical Communications, 1995, , 475-476.	2.0	30
89	Electrical behavior of memory devices based on fluorene-containing organic thin films. Journal of Applied Physics, 2008, 104, 044510.	2.5	30
90	Model for large-area monolayer coverage of polystyrene nanospheres by spin coating. Scientific Reports, 2017, 7, 40888.	3.3	30

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91	Polarization processes in pyroelectric Langmuir-Blodgett films. Thin Solid Films, 1988, 160, 117-123.	1.8	29
92	Synthesis of amphiphilic, mono-functionalised tetrathiafulvalenes; X-ray crystal structure of 4-(6-sromohexanoyl)tetrathiafulvalene. Journal of the Chemical Society Chemical Communications, 1990, , 816.	2.0	29
93	Optimization of a Solution-Processed SiO2 Gate Insulator by Plasma Treatment for Zinc Oxide Thin Film Transistors. ACS Applied Materials & Interfaces, 2016, 8, 2061-2070.	8.0	29
94	Conduction mechanisms in Pd/SiO2/n-Si Schottky diode hydrogen detectors. Solid-State Electronics, 1986, 29, 89-97.	1.4	28
95	The deposition and characterization of multilayers of the ionophore valinomycin. Thin Solid Films, 1988, 160, 483-489.	1.8	28
96	Alternate-layer Langmuir-Blodgett films of long-chain TCNQ and TTF derivatives. Synthetic Metals, 1989, 31, 275-279.	3.9	28
97	Docosanoyl itaconate/1-docosylamine alternate-layer Langmuirâ€“Blodgett films: polymerisation, pyroelectric properties and infrared spectroscopic studies. Journal of Materials Chemistry, 1991, 1, 819-826.	6.7	28
98	Semiconducting Langmuirâ€“Blodgett films of ethylenedithiotetrathiafulvalene (EDTâ€“TTF) derivatives bearing charged and uncharged aromatic substituents. Journal of Materials Chemistry, 1997, 7, 901-907.	6.7	28
99	Thermal annealing of blended-layer organic light-emitting diodes. Journal of Applied Physics, 2005, 98, 054508.	2.5	28
100	White organic light-emitting devices incorporating nanoparticles of IIâ€“VI semiconductors. Nanotechnology, 2007, 18, 335202.	2.6	28
101	Langmuir-Blodgett films in amorphous silicon MIS structures. Thin Solid Films, 1982, 89, 395-400.	1.8	27
102	Amorphous silicon/Langmuir-Blodgett film field effect transistor. Thin Solid Films, 1983, 99, 297-304.	1.8	27
103	Structural properties of Langmuir-Blodgett films of a long-chain tetrathiafulvalene derivative. Synthetic Metals, 1990, 35, 307-318.	3.9	27
104	Sensitivity of the electrical admittance of a polysiloxane film to organic vapours. Sensors and Actuators B: Chemical, 1999, 56, 37-44.	7.8	27
105	Optical properties of polyaniline thin films. Synthetic Metals, 1993, 55, 183-187.	3.9	26
106	Arborol-Functionalised Tetrathiafulvalene Derivatives: Synthesis and Thin-Film Formation. European Journal of Organic Chemistry, 2003, 2003, 3562-3568.	2.4	26
107	Enhanced electron injection and efficiency in blended-layer organic light emitting diodes with aluminium cathodes: new 2,5-diaryl-1,3,4-oxadiazoleâ€“fluorene hybrids incorporating pyridine units. Journal of Materials Chemistry, 2005, 15, 5164.	6.7	26
108	Metal nano-floating gate memory devices fabricated at low temperature. Microelectronic Engineering, 2006, 83, 1563-1566.	2.4	26

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109	Field-effect transistor based on organometallic Langmuir-Blodgett film. Electronics Letters, 1993, 29, 1377.	1.0	25
110	Aggregate Formation in Langmuir-Blodgett Films of an Amphiphilic Benzothiazolium Styryl Chromoionophore. Langmuir, 1994, 10, 4185-4189.	3.5	25
111	Crown-annelated tetrathiafulvalenes: synthesis of new functionalised derivatives and spectroscopic and electrochemical studies of metal complexation. Journal of the Chemical Society Perkin Transactions II, 1996, , 1587-1593.	0.9	25
112	A polyaniline/sllicon hybrid field effect transistor humidity sensor. Synthetic Metals, 1997, 85, 1365-1366.	3.9	25
113	Quenching of pyrene fluorescence by fullerene C60 in Langmuirâ€“Blodgett films. Chemical Physics Letters, 1997, 280, 315-320.	2.6	25
114	A single chip multi-channel surface plasmon resonance imaging system. Sensors and Actuators B: Chemical, 2003, 90, 264-270.	7.8	25
115	The morphology and electrical conductivity of single-wall carbon nanotube thin films prepared by the Langmuirâ€“Blodgett technique. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 354, 113-117.	4.7	25
116	Exploring the alignment of carbon nanotubes dispersed in a liquid crystal matrix using coplanar electrodes. Journal of Applied Physics, 2015, 117, .	2.5	25
117	Substituted silicon phthalocyanine Langmuir-Blodgett film and its possible use in electronic devices. Thin Solid Films, 1990, 192, 383-390.	1.8	24
118	Photoinduced Electron Transfer between 16-(9-Anthroyloxy)palmitic Acid and Fullerene C60 in Langmuirâ^'Blodgett Films. Langmuir, 1998, 14, 3343-3346.	3.5	24
119	Novel fulleropyrrolidiniumâ€based materials. Journal of Materials Chemistry, 2000, 10, 269-273.	6.7	24
120	Electrochemical studies on Langmuirâ€“Blodgett films of 1-tert-butyl-1,9-dihydrofullerene-60. Journal of the Chemical Society Chemical Communications, 1993, .	2.0	23
121	Thermally stimulated discharge of alternate-layer Langmuir-Blodgett film structures. Journal Physics D: Applied Physics, 1988, 21, 95-100.	2.8	22
122	Gas sensing using a charge-flow transistor. Sensors and Actuators B: Chemical, 1995, 25, 451-453.	7.8	22
123	Complex Formation of an Amphiphilic Benzothiazolium Styryl Chromoionophore with Metal Cations in a Monolayer at the Air-Water Interface. The Journal of Physical Chemistry, 1995, 99, 4176-4180.	2.9	22
124	Nanoscale resolution scanning thermal microscopy using carbon nanotube tipped thermal probes. Physical Chemistry Chemical Physics, 2014, 16, 1174-1181.	2.8	22
125	Enhanced lifetime of organic photovoltaic diodes utilizing a ternary blend including an insulating polymer. Solar Energy Materials and Solar Cells, 2017, 160, 101-106.	6.2	22
126	Low-Voltage Solution-Processed Hybrid Light-Emitting Transistors. ACS Applied Materials & Interfaces, 2018, 10, 18445-18449.	8.0	22

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127	Hydrogen-induced DLTS signal in pd/n-Si Schottky diodes. Electronics Letters, 1982, 18, 314.	1.0	21
128	Langmuir-blodgett films. Endeavour, 1983, 7, 65-69.	0.4	21
129	The deposition and characterization of phosphatidic acid Langmuir-Blodgett films. Thin Solid Films, 1990, 192, 391-396.	1.8	21
130	Electroactive Langmuirâ€“Blodgett films of O-hexadecylthiocarboxytetrathiafulvalene (HDTTTF). Journal of the Chemical Society Chemical Communications, 1990, , 970-972.	2.0	21
131	Application of multilayer films to molecular sensors: some examples of bioengineering at the molecular level. Journal of Biomedical Engineering, 1991, 13, 209-214.	0.7	21
132	Langmuir-Blodgett Films of Chromoionophores Containing a Crown Ether Ring: Complex Formation with Ag+ Cations in Water. The Journal of Physical Chemistry, 1994, 98, 9601-9605.	2.9	21
133	Variation in Intermolecular Spacing with Dipping Pressure for Arachidic Acid LB Films. The Journal of Physical Chemistry, 1996, 100, 11672-11674.	2.9	21
134	Focused ion beam and field-emission microscopy of metallic filaments in memory devices based on thin films of an ambipolar organic compound consisting of oxadiazole, carbazole, and fluorene units. Applied Physics Letters, 2013, 102, .	3.3	21
135	Environmental effects on the electrical behavior of pentacene thin-film transistors with a poly(methyl methacrylate) gate insulator. Organic Electronics, 2013, 14, 2101-2107.	2.6	21
136	Highly-conducting Langmuir-Blodgett films based on Ni(dmit)2 anions. Journal of the Chemical Society Chemical Communications, 1991, , 322.	2.0	20
137	Pentacosa-10,12-diynoic acid/henicosa-2,4-diynylamine alternatelayer Langmuirâ€“Blodgett films: synthesis, polymerisation and electrical properties. Journal of Materials Chemistry, 1993, 3, 97-104.	6.7	20
138	Anomalous distance dependence of fluorescence lifetime quenched by a semiconductor. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 200, 61-64.	2.1	20
139	The effect of insulating spacer layers on the electrical properties of polymeric Langmuir-Blodgett film light emitting devices. Journal Physics D: Applied Physics, 2000, 33, 1029-1035.	2.8	20
140	The electrical and optical properties of oriented Langmuir-Blodgett films of single-walled carbon nanotubes. Carbon, 2011, 49, 2424-2430.	10.3	20
141	Pyrene excimer formation in Langmuir-Blodgett films. Thin Solid Films, 1996, 284-285, 622-626.	1.8	19
142	Metal ion sensing using ultrathin organic films prepared by the layer-by-layer adsorption technique. Journal Physics D: Applied Physics, 2001, 34, 285-291.	2.8	19
143	Charge Storage in Pentacene/Polymethylmethacrylate Memory Devices. IEEE Electron Device Letters, 2009, 30, 632-634.	3.9	19
144	Dynamic pyroelectric response of Langmuir-Blodgett film infrared detectors. Journal Physics D: Applied Physics, 1986, 19, L167-L172.	2.8	18

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145	Photoelectric properties of substituted silicon phthalocyanine Langmuir-Blodgett film Schottky barrier and metal/insulator/semiconductor devices. Thin Solid Films, 1987, 149, 163-170.	1.8	18
146	Infrared spectroscopic studies on the structure and ordering of hexadecanoyltetrathiafulvalene conducting Langmuir-Blodgett multilayers. Langmuir, 1990, 6, 1680-1682.	3.5	18
147	Infrared spectroscopic studies of molecular structure, ordering, and interactions in enzyme-containing Langmuir-Blodgett films. Langmuir, 1990, 6, 1068-1070.	3.5	18
148	Fourier transform infrared spectroscopic studies on alternate-layer Langmuir-Blodgett films with nonlinear optical properties. Langmuir, 1992, 8, 262-266.	3.5	18
149	Electrical properties of Langmuir-Blodgett films of a Ni(dmit)2 charge-transfer complex. Thin Solid Films, 1992, 210-211, 257-260.	1.8	18
150	A semiconducting Langmuirâ€“Blodgett film of a non-amphiphilic bis-tetrathiafulvalene derivative. Journal of Materials Chemistry, 1995, 5, 1609-1615.	6.7	18
151	Application of impedance spectroscopy to the study of organic multilayer devices. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 171, 159-166.	4.7	18
152	Dual-layer light emitting devices based on polymeric Langmuirâ€“Blodgett films. Journal of Materials Chemistry, 2000, 10, 163-167.	6.7	18
153	Improved memory behaviour of single-walled carbon nanotubes charge storage nodes. Journal Physics D: Applied Physics, 2012, 45, 295401.	2.8	18
154	Evolution of Electronic Circuits using Carbon Nanotube Composites. Scientific Reports, 2016, 6, 32197.	3.3	18
155	Lightâ€Emitting Transistors Based on Solutionâ€Processed Heterostructures of Selfâ€Organized Multipleâ€Quantumâ€Well Perovskite and Metalâ€Oxide Semiconductors. Advanced Electronic Materials, 2019, 5, 1800985.	5.1	18
156	Optical properties of highly ordered perylene multilayers. Thin Solid Films, 1989, 179, 515-520.	1.8	17
157	Optical sensing of aromatic hydrocarbons using Langmuirâ€“Blodgett films of a Schiff base co-ordination polymer. Thin Solid Films, 1998, 327-329, 726-729.	1.8	17
158	Electrochemical molecular recognition by thin films of ether-substituted polythiophenes. Journal of Electroanalytical Chemistry, 1998, 447, 1-3.	3.8	17
159	Atomic force microscope characterization of poly(ethyleneimine)/poly(ethylene-co-maleic acid) and poly(ethyleneimine)/poly(styrene sulfonate) multilayers. Thin Solid Films, 2005, 483, 114-121.	1.8	17
160	Electrical properties of Au/n-CdTe Schottky diodes. Journal Physics D: Applied Physics, 1982, 15, 901-910.	2.8	16
161	Quality control of dairy products using single frequency admittance measurements. Measurement Science and Technology, 2006, 17, 275-280.	2.6	16
162	GaAs/LB film MISS switching device. Electronics Letters, 1984, 20, 838.	1.0	15

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163	Blue electroluminescence from ZnSe/Langmuir-Blodgett film MIS diodes. Electronics Letters, 1987, 23, 231-232.	1.0	15
164	Langmuir-Blodgett films: a new class of pyroelectric materials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1988, 35, 736-740.	3.0	15
165	Preparation and characterisation of conductive Langmuirâ€“Blodgett films of amphiphilic pyridiniumâ€“ni(dmit)2salts. Journal of Materials Chemistry, 1995, 5, 1601-1608.	6.7	15
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