

Martin Grell

List of Publications by Year in descending order

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48
papers

1,217
citations

687363

13
h-index

395702

33
g-index

48
all docs

48
docs citations

48
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarized Luminescence from Oriented Molecular Materials. <i>Advanced Materials</i> , 1999, 11, 895-905.	21.0	465
2	Improving organic transistor performance with Schottky contacts. <i>Applied Physics Letters</i> , 2004, 84, 1004-1006.	3.3	121
3	Influence of aggregation on the optical properties of a polyfluorene. , 1997, , .		83
4	New organic semiconductors and their device performance as a function of thiophene orientation. <i>Journal of Materials Chemistry</i> , 2006, 16, 1121-1124.	6.7	55
5	On the circular polarization of fluorescence from dyes dissolved in chiral nematic liquid crystals. <i>Chemical Physics Letters</i> , 2001, 347, 173-177.	2.6	49
6	Real-time vapour sensing using an OFET-based electronic nose and genetic programming. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 365-372.	7.8	43
7	Synthesis and characterisation of a conjugated reactive mesogen. <i>Journal of Materials Chemistry</i> , 1999, 9, 2985-2989.	6.7	38
8	Liquid crystal/liquid-crystalline network composite systems Structure formation and electro-optic properties. <i>Liquid Crystals</i> , 1992, 11, 929-939.	2.2	31
9	Electrode specific electropolymerization of ethylenedioxythiophene: Injection enhancement in organic transistors. <i>Applied Physics Letters</i> , 2005, 87, 113501.	3.3	29
10	Polarized electroluminescence from photocrosslinkable nematic fluorene bisacrylates. , 2001, 4105, 338.		27
11	Electron transporting water-gated thin film transistors. <i>Applied Physics Letters</i> , 2012, 101, 141603.	3.3	22
12	Highly sensitive alkane odour sensors based on functionalised gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 399-404.	7.8	16
13	Investigation of solution processed poly(4,4-dioctylcyclopentadithiophene) thin films as transparent conductors. <i>Synthetic Metals</i> , 2004, 143, 203-206.	3.9	14
14	A novel characterization scheme for organic field-effect transistors. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 3563-3566.	2.8	14
15	An ionic liquid-gated polymer thin film transistor with exceptionally low on/off -resistance. <i>Applied Physics Letters</i> , 2014, 104, 182107.	3.3	13
16	Comparing electron- and hole transporting semiconductors in ion sensitive water- gated transistors. <i>Materials Science in Semiconductor Processing</i> , 2019, 89, 216-222.	4.0	13
17	A water-gated organic thin film transistor as a sensor for water-borne amines. <i>Talanta</i> , 2016, 153, 107-110.	5.5	12
18	Monitoring the lead-and-copper rule with a water-gated field effect transistor. <i>Journal of Water and Health</i> , 2020, 18, 159-171.	2.6	12

#	ARTICLE	IF	CITATIONS
19	Sub-nanomolar detection of cesium with water-gated transistor. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	11
20	Precursor-route ZnO films from a mixed casting solvent for high performance aqueous electrolyte-gated transistors. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31247-31252.	2.8	10
21	Water-gated organic nanowire transistors. <i>Organic Electronics</i> , 2013, 14, 1057-1063.	2.6	9
22	Fibre optic absorbance meter with low limit of detection for waterborne cations. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 1102-1107.	7.8	9
23	A New Precursor Route to Semiconducting Zinc Oxide. <i>IEEE Electron Device Letters</i> , 2016, 37, 1299-1302.	3.9	9
24	Intensity-Modulated Spectroscopy on Loaded Organic Photovoltaic Cells. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 1414-1421.	2.5	8
25	A membrane-free cation selective water-gated transistor. <i>Analyst, The</i> , 2016, 141, 5571-5576.	3.5	8
26	Sensing aromatic pollutants in water with catalyst-sensitized water-gated transistor. <i>Chemical Papers</i> , 2020, 74, 4169-4180.	2.2	8
27	Resonance-regime behaviour of a Förster-transfer fluorescent dye couple dissolved in a chiral nematic liquid crystal. <i>Chemical Physics Letters</i> , 2002, 355, 214-218.	2.6	7
28	Organic solvents as gate media for thin-film transistors. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	7
29	Planar organic spin valves using nanostructured Ni ₈₀ Fe ₂₀ magnetic contacts. <i>Organic Electronics</i> , 2014, 15, 276-280.	2.6	7
30	Wide Field Magnetic Luminescence Imaging. <i>Advanced Functional Materials</i> , 2017, 27, 1606613.	14.9	7
31	Electrochemical gating of a hydrophobic organic semiconductor with aqueous media. <i>Thin Solid Films</i> , 2019, 669, 665-669.	1.8	7
32	Low cost, high sensitivity detection of waterborne Al ³⁺ cations and F ⁻ anions via the fluorescence response of a morin derivative dye. <i>Analytica Chimica Acta</i> , 2020, 1105, 1-10.	5.4	7
33	Parallel Potentiometric and Capacitive Response in a Water-Gate Thin Film Transistor Biosensor at High Ionic Strength. <i>Sensors</i> , 2021, 21, 5618.	3.8	6
34	Discovery of a New Odour Sensing Mechanism Using an α -Type Organic Transistor. <i>Sensor Letters</i> , 2011, 9, 1692-1696.	0.4	5
35	Electronic and Electro-Optic Molecular Materials and Devices. , 2005, , 282-342.		4
36	Oscillator circuit based on a single organic transistor. <i>Applied Physics Letters</i> , 2008, 93, 113505.	3.3	4

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37	Manifold sensitivity improvement of swelling-based sensors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5558.	2.8	4
38	Innate cation sensitivity in a semiconducting polymer. <i>Talanta</i> , 2016, 158, 70-76.	5.5	4
39	â€œRough guideâ€™™ evanescent wave optrode for colorimetric metalloporphyrine sensors. <i>Talanta</i> , 2017, 164, 228-232.	5.5	4
40	Water-Gated Transistor Using Ion Exchange Resin for Potentiometric Fluoride Sensing. <i>Micromachines</i> , 2020, 11, 923.	2.9	4
41	Liquid crystalline networks composed of rigid spacerless monomers: kinetics of network formation, anisotropic structure and mechanical properties. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3905-3918.	2.2	3
42	Adaptive and sensitive fibre-optic fluorimetric transducer for air- and water-borne analytes. <i>Talanta</i> , 2019, 199, 40-45.	5.5	3
43	Isomer-pure synthesis and preparation of FET using thieno[f , f ']bis[1]benzothiophene (syn, anti). , 2005, , .		2
44	A swelling-based chemiresistor for a biogenic odour. <i>Talanta</i> , 2012, 99, 50-54.	5.5	2
45	Morphology-Driven Sensitivity Enhancement in Organic Nanowire Chemiresistors. <i>Sensor Letters</i> , 2013, 11, 552-555.	0.4	1
46	All-organic single-transistor permanent memory device. <i>Materials Research Society Symposia Proceedings</i> , 2004, 830, 282.	0.1	0
47	Manifold sensitivity improvement of hydrocarbon odour sensors. , 2012, , .		0
48	Low-Cost, High-Sensitivity Detection of Waterborne Al ³⁺ Cations and F ⁻ Anions via the Fluorescence Response of a Morin Derivative Dye. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0