

# Marta Mas-Torrent

## 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.

179  
papers

5,601  
citations

39  
h-index

68  
g-index

188  
ext. papers

6,095  
ext. citations

8.4  
avg, IF

5.91  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 179 | Functionalising the gate dielectric of organic field-effect transistors with self-assembled monolayers: effect of molecular electronic structure on device performance. <i>Applied Physics A: Materials Science and Processing</i> , <b>2022</b> , 128, 1 | 2.6  | 1         |
| 178 | Real-time threshold voltage compensation on dual-gate electrolyte-gated organic field-effect transistors. <i>Organic Electronics</i> , <b>2022</b> , 106, 106531  | 3.5  | 0         |
| 177 | Deposició convectiva ràpida a escala nanomètrica de materials compostos actius para la fabricació de transistors orgànics de efecto de campo. <i>Ingenius: Revista De Ciencia Y Tecnología</i> , <b>2021</b> , 9-16                                       | 2    |           |
| 176 | Tetramethylbenzidine- $\pi$ -tetrafluoroTCNQ (TMB- $\pi$ -CNQF4): A Narrow-Gap Semiconducting Salt with Room-Temperature Relaxor Ferroelectric Behavior. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 25816-25824                          | 3.8  | 2         |
| 175 | Interplay between Electrolyte-Gated Organic Field-Effect Transistors and Surfactants: A Surface Aggregation Tool and Protecting Semiconducting Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30902-30909                       | 9.5  | 4         |
| 174 | Bias-Polarity-Dependent Direct and Inverted Marcus Charge Transport Affecting Rectification in a Redox-Active Molecular Junction. <i>Advanced Science</i> , <b>2021</b> , 8, e2100055   | 13.6 | 7         |
| 173 | Nanoscale Mapping of the Conductivity and Interfacial Capacitance of an Electrolyte-Gated Organic Field-Effect Transistor under Operation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008032   | 15.6 | 10        |
| 172 | Influence of polymer binder on the performance of diF-TES-ADT based organic field effect transistor. <i>CrystEngComm</i> , <b>2021</b> , 23, 1043-1051  | 3.3  | 5         |
| 171 | Perspectives for polychlorinated trityl radicals. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10610-10623  | 7.1  | 4         |
| 170 | Mobility anisotropy in the herringbone structure of asymmetric Ph-BTBT-10 in solution sheared thin film transistors. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7186-7193   | 7.1  | 8         |
| 169 | Precursor polymorph determines the organic semiconductor structure formed upon annealing. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10865-10874  | 7.1  | 1         |
| 168 | Molecular Disorder in Crystalline Thin Films of an Asymmetric BTBT Derivative. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1455-1461  | 9.6  | 5         |
| 167 | Low activation energy field-effect transistors fabricated by bar-assisted meniscus shearing. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 103301   | 3.4  |           |
| 166 | Selective Discrimination of Toxic Polycyclic Aromatic Hydrocarbons in Water by Targeting $\pi$ -Stacking Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26688-26693  | 9.5  | 4         |
| 165 | Highly Oxidized States of Phthalocyaninato Terbium(III) Multiple-Decker Complexes Showing Structural Deformations, Biradical Properties and Decreases in Magnetic Anisotropy. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8621-8630         | 4.8  | 10        |
| 164 | Double Beneficial Role of Fluorinated Fullerene Dopants on Organic Thin-Film Transistors: Structural Stability and Improved Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28416-28425                                    | 9.5  | 10        |
| 163 | Electronic Performance of Polymer Carbon-Paste Nanoallotropes from 0D to 3D as Novel Gate Electrodes in Water-Gated Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000431                                     | 6.4  | 1         |

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| 162 | Molecular Approach to Electrochemically Switchable Monolayer MoS Transistors. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000740   | 24   | 26 |
| 161 | Cyclodextrin-based superparamagnetic host vesicles as ultrasensitive nanobiocarriers for electrosensing. <i>Nanoscale</i> , <b>2020</b> , 12, 9884-9889  | 7.7  | 5  |
| 160 | Neutral Organic Radical Formation by Chemisorption on Metal Surfaces. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3897-3904   | 6.4  | 6  |
| 159 | Morphology and mobility as tools to control and unprecedentedly enhance X-ray sensitivity in organic thin-films. <i>Nature Communications</i> , <b>2020</b> , 11, 2136   | 17.4 | 35 |
| 158 | Bioelectronic Recordings of Cardiomyocytes with Accumulation Mode Electrolyte Gated Organic Field Effect Transistors. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 150, 111844   | 11.8 | 22 |
| 157 | Exploiting the versatile alkyne-based chemistry for expanding the applications of a stable triphenylmethyl organic radical on surfaces. <i>Chemical Science</i> , <b>2020</b> , 11, 516-524  | 9.4  | 11 |
| 156 | Synthesis of 0D to 3D hybrid-carbon nanomaterials carrying platinum(0) nanoparticles: Towards the electrocatalytic determination of methylparabens at ultra-trace levels. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127467 | 8.5  | 5  |
| 155 | Enhancing Long-Term Device Stability Using Thin Film Blends of Small Molecule Semiconductors and Insulating Polymers to Trap Surface-Induced Polymorphs. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2006115                      | 15.6 | 12 |
| 154 | Reversal of the Direction of Rectification Induced by Fermi Level Pinning at Molecule-Electrode Interfaces in Redox-Active Tunneling Junctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55044-55055                  | 9.5  | 12 |
| 153 | Label-free immunodetection of $\beta$ -Synuclein by using a microfluidics coplanar electrolyte-gated organic field-effect transistor. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 167, 112433   | 11.8 | 23 |
| 152 | Stability of radical-functionalized gold surfaces by self-assembly and on-surface chemistry. <i>Chemical Science</i> , <b>2020</b> , 11, 9162-9172   | 9.4  | 7  |
| 151 | Selection of the two enantiotropic polymorphs of diF-TES-ADT in solution sheared thin film transistors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15361-15367   | 7.1  | 7  |
| 150 | Resistive Switching Observation in a Gallium-Based Liquid Metal/Graphene Junction. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3093-3099  | 4    | 9  |
| 149 | Crystal alignment of surface stabilized polymorph in thioindigo films. <i>Dyes and Pigments</i> , <b>2020</b> , 172, 107847  | 4.7  | 7  |
| 148 | Organic Semiconductor/Polymer Blend Films for Organic Field-Effect Transistors. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900104  | 6.8  | 65 |
| 147 | EGOFET Gated by a Molecular Electronic Switch: A Single-Device Memory Cell. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800875  | 6.4  | 5  |
| 146 | On the Sensing Mechanisms of a Hydroresistive Flexible Film Based on an Organic Molecular Metal. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 1781-1791  | 4    | 0  |
| 145 | Solution-processed thin films of a charge transfer complex for ambipolar field-effect transistors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10257-10263  | 7.1  | 18 |

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|-----|---|------|----|
| 144 | A Solid-State Aqueous Electrolyte-Gated Field-Effect Transistor as a Low-Voltage Operation Pressure-Sensitive Platform. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900719   | 4.6  | 18 |
| 143 | Impact of the Ink Formulation and Coating Speed on the Polymorphism and Morphology of a Solution-Sheared Thin Film of a Blended Organic Semiconductor. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900950              | 4.6  | 15 |
| 142 | Carbon-paste nanocomposites as unconventional gate electrodes for electrolyte-gated organic field-effect transistors: electrical modulation and bio-sensing. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14993-14998 | 7.1  | 9  |
| 141 | Synthesis of a vinylogue tetrathiafulvalene derivative and study of its charge transfer complex with TCNQF4. <i>Synthetic Metals</i> , <b>2019</b> , 247, 144-150   | 3.6  | 12 |
| 140 | Solution-sheared thin films of a donor-acceptor random copolymer/polystyrene blend as active material in field-effect transistors. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 93, 105-110                 | 4.3  | 7  |
| 139 | Role of Polymorphism and Thin-Film Morphology in Organic Semiconductors Processed by Solution Shearing. <i>ACS Omega</i> , <b>2018</b> , 3, 2329-2339   | 3.9  | 58 |
| 138 | Electrochemically driven host-guest interactions on patterned donor/acceptor self-assembled monolayers. <i>Chemical Communications</i> , <b>2018</b> , 54, 3038-3041  | 5.8  | 5  |
| 137 | Reduction of Charge Traps and Stability Enhancement in Solution-Processed Organic Field-Effect Transistors Based on a Blended n-Type Semiconductor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15952-15961   | 9.5  | 36 |
| 136 | Study of carbon nanotube-rich impedimetric recognition electrode for ultra-low determination of polycyclic aromatic hydrocarbons in water. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 255  | 5.8  | 8  |
| 135 | Decoding the Vertical Phase Separation and Its Impact on C8-BTBT/PS Transistor Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7296-7303  | 9.5  | 45 |
| 134 | Extensive study of the electron donor 1,1,4,4-tetrathiabutadiene (TTB) and of its charge transfer crystal with TCNQ. <i>Synthetic Metals</i> , <b>2018</b> , 235, 29-33   | 3.6  | 4  |
| 133 | Fluid Mixing for Low-Power Digital Microfluidics Using Electroactive Molecular Monolayers. <i>Small</i> , <b>2018</b> , 14, 1703344   | 11   | 8  |
| 132 | High Performance Organic Field-Effect Transistors with Solid and Aqueous Dielectric Based on a Solution Sheared Sulfur-Bridged Annulene Derivative. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700349                 | 6.4  | 5  |
| 131 | Chiral magnetic-nanobiofluids for rapid electrochemical screening of enantiomers at a magneto nanocomposite graphene-paste electrode. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 105, 95-102                              | 11.8 | 36 |
| 130 | Robust Organic Radical Molecular Junctions Using Acetylene Terminated Groups for C-Au Bond Formation. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1691-1696  | 16.4 | 51 |
| 129 | Morphology Influence on the Mechanical Stress Response in Bendable Organic Field-Effect Transistors with Solution-Processed Semiconductors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700271                         | 6.4  | 17 |
| 128 | Self-Assembly of an Organic Radical Thin Film and Its Memory Function Investigated Using a Liquid-Metal Electrode. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17784-17791  | 3.8  | 5  |
| 127 | Modification of the gate electrode by self-assembled monolayers in flexible electrolyte-gated organic field effect transistors: work function capacitance effects. <i>RSC Advances</i> , <b>2018</b> , 8, 27509-27515               | 3.7  | 16 |

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|-----|--|------|----|
| 126 | Design of Perchlorotriphenylmethyl (PTM) Radical-Based Compounds for Optoelectronic Applications: The Role of Orbital Delocalization. <i>ChemPhysChem</i> , <b>2018</b> , 19, 2572-2578  | 3.2  | 9  |
| 125 | Oligothiophenevinylene Polarons and Bipolarons Confined between Electron-Accepting Perchlorotriphenylmethyl Radicals. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 3776-3783  | 4.8  | 4  |
| 124 | Synergistic Exploitation of the Superoxide Scavenger Properties of Reduced Graphene Oxide and a Trityl Organic Radical for the Impedimetric Sensing of Xanthine. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701072 | 4.6  | 7  |
| 123 | Study of the E <sub>Z</sub> stilbene isomerisation in perchlorotriphenyl-methane (PTM) derivatives. <i>RSC Advances</i> , <b>2017</b> , 7, 15278-15283   | 3.7  | 5  |
| 122 | A four-state capacitance molecular switch based on a redox active tetrathiafulvalene self-assembled monolayer. <i>RSC Advances</i> , <b>2017</b> , 7, 5636-5641  | 3.7  | 16 |
| 121 | Control of Polymorphism and Morphology in Solution Sheared Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700526  | 15.6 | 73 |
| 120 | Spray-coated contacts from an organic charge transfer complex solution for organic field-effect transistors. <i>Organic Electronics</i> , <b>2017</b> , 48, 365-370  | 3.5  | 8  |
| 119 | Direct covalent grafting of an organic radical core on gold and silver. <i>RSC Advances</i> , <b>2017</b> , 7, 20076-20083   | 3.7  | 7  |
| 118 | Proximity-Induced Shiba States in a Molecular Junction. <i>Physical Review Letters</i> , <b>2017</b> , 118, 117001   | 7.4  | 29 |
| 117 | Operative Mechanism of Hole-Assisted Negative Charge Motion in Ground States of Radical-Anion Molecular Wires. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 686-692                                      | 16.4 | 21 |
| 116 | Mercury-Mediated Organic Semiconductor Surface Doping Monitored by Electrolyte-Gated Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703899  | 15.6 | 12 |
| 115 | Carbon-Rich Monolayers on ITO as Highly Sensitive Platforms for Detecting Polycyclic Aromatic Hydrocarbons in Water: The Case of Pyrene. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15289-15293                   | 4.8  | 8  |
| 114 | Covalent Modification of Highly Ordered Pyrolytic Graphite with a Stable Organic Free Radical by Using Diazonium Chemistry. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1415-1421                                  | 4.8  | 14 |
| 113 | Chemical control over the energy-level alignment in a two-terminal junction. <i>Nature Communications</i> , <b>2016</b> , 7, 12066   | 17.4 | 40 |
| 112 | Precise Characterisation of Molecular Orientation in a Single Crystal Field-Effect Transistor Using Polarised Raman Spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 33057   | 4.9  | 11 |
| 111 | Tuning Crystal Ordering, Electronic Structure, and Morphology in Organic Semiconductors: Tetrathiafulvalenes as a Model Case. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2256-2275                                 | 15.6 | 37 |
| 110 | Large-Size Star-Shaped Conjugated (Fused) Triphthalocyaninehexaazatriphenylene. <i>Organic Letters</i> , <b>2016</b> , 18, 1466-9  | 6.2  | 6  |
| 109 | Structural and electronic characterisation of extended tetrathiafulvalene derivatives as active components in field-effect transistors. <i>CrystEngComm</i> , <b>2016</b> , 18, 6149-6152  | 3.3  | 7  |

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| 108 | Single Crystal-Like Performance in Solution-Coated Thin-Film Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2379-2386   | 15.6 | 78 |
| 107 | Donor/Acceptor Mixed Self-Assembled Monolayers for Realising a Multi-Redox-State Surface. <i>ChemPhysChem</i> , <b>2016</b> , 17, 1810-4  | 3.2  | 12 |
| 106 | A Rapid, Low-Cost, and Scalable Technique for Printing State-of-the-Art Organic Field-Effect Transistors. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600090   | 6.8  | 65 |
| 105 | A surface confined yttrium(iii) bis-phthalocyaninato complex: a colourful switch controlled by electrons. <i>Chemical Science</i> , <b>2016</b> , 7, 4940-4944  | 9.4  | 6  |
| 104 | High performing solution-coated electrolyte-gated organic field-effect transistors for aqueous media operation. <i>Scientific Reports</i> , <b>2016</b> , 6, 39623  | 4.9  | 41 |
| 103 | An Electrically Driven and Readable Molecular Monolayer Switch Based on a Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 368-72  | 16.4 | 19 |
| 102 | An Electrically Driven and Readable Molecular Monolayer Switch Based on a Solid Electrolyte. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 376-380  | 3.6  | 10 |
| 101 | A redox-active radical as an effective nanoelectronic component: stability and electrochemical tunnelling spectroscopy in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 27733-27737                 | 3.6  | 7  |
| 100 | Electrolyte-Gated Organic Field-Effect Transistor Based on a Solution Sheared Organic Semiconductor Blend. <i>Advanced Materials</i> , <b>2016</b> , 28, 10311-10316  | 24   | 39 |
| 99  | Pyrene-based dyad and triad leading to a reversible chemical and redox optical and magnetic switch. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 5504-9  | 4.8  | 5  |
| 98  | Changes of the Molecular Structure in Organic Thin Film Transistors during Operation. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15912-15918   | 3.8  | 10 |
| 97  | Kondo effect in a neutral and stable all organic radical single molecule break junction. <i>Nano Letters</i> , <b>2015</b> , 15, 3109-14  | 11.5 | 93 |
| 96  | Organic metal engineering for enhanced field-effect transistor performance. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 26545-52   | 3.6  | 31 |
| 95  | A Methyl-Substituted Thiophene-tetra-thiafulvalene Donor and Its Salts. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 5003-5010  | 2.3  | 2  |
| 94  | Flexible organic transistors based on a solution-sheared PVDF insulator. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12199-12202   | 7.1  | 29 |
| 93  | A compact tetrathiafulvalene-benzothiadiazole dyad and its highly symmetrical charge-transfer salt: ordered donor $\pi$ -stacks closely bound to their acceptors. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 7136-43 | 4.8  | 23 |
| 92  | Crystal Structure Performance Relationship in OFETs <b>2014</b> , 649-682   |      | 1  |
| 91  | Restraints in low dimensional organic semiconductor devices at high current densities. <i>Organic Electronics</i> , <b>2014</b> , 15, 211-215   | 3.5  | 1  |



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| 90 | HOMO stabilisation in extended dibenzotetrathiafulvalene derivatives for their application in organic field-effect transistors. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 16672-9            | 4.8  | 13  |
| 89 | Surface-confined electroactive molecules for multistate charge storage information. <i>Advanced Materials</i> , <b>2013</b> , 25, 462-8  | 24   | 48  |
| 88 | Electrochemical and magnetic properties of a surface-grafted novel endohedral metallofullerene derivative. <i>Chemical Communications</i> , <b>2013</b> , 49, 8145-7   | 5.8  | 9   |
| 87 | Electrochemical and chemical tuning of the surface wettability of tetrathiafulvalene self-assembled monolayers. <i>Chemical Communications</i> , <b>2013</b> , 49, 8084-6                                    | 5.8  | 15  |
| 86 | Intramolecular electron transfer in the photodimerisation product of a tetrathiafulvalene derivative in solution and on a surface. <i>Chemical Science</i> , <b>2013</b> , 4, 307-310                        | 9.4  | 13  |
| 85 | Solid state photodimerisation of tetrathiafulvalene derivatives bearing carboxylate and carboxylic acid substituents. <i>CrystEngComm</i> , <b>2013</b> , 15, 9878   | 3.3  | 8   |
| 84 | Robust molecular micro-capsules for encapsulating and releasing hydrophilic contents. <i>Chemical Communications</i> , <b>2013</b> , 49, 7827-9  | 5.8  | 3   |
| 83 | Photo-induced intramolecular charge transfer in an ambipolar field-effect transistor based on a $\pi$ -conjugated donor-acceptor dyad. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3985       | 7.1  | 38  |
| 82 | Harnessing electron transfer from the perchlorotriphenylmethide anion to Y@C <sub>82</sub> (C <sub>2v</sub> ) to engineer an endometallofullerene-based salt. <i>ChemPhysChem</i> , <b>2013</b> , 14, 1670-5 | 3.2  | 10  |
| 81 | Dithiophene-tetrathiafulvalene Detailed Study of an Electronic Donor and Its Derivatives. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 2440-2446                                     | 2.3  | 9   |
| 80 | Tetrathiafulvalene-based mixed-valence acceptor-donor-acceptor triads: a joint theoretical and experimental approach. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 16656-64                     | 4.8  | 12  |
| 79 | PTM Radicals for Molecular-Based Electronic Devices. <i>Advances in Atom and Single Molecule Machines</i> , <b>2013</b> , 71-85  | 0    |     |
| 78 | Phase recognition by lattice phonon Raman spectra: The triclinic structure of the organic semiconductor dibenzo-tetrathiafulvalene. <i>Chemical Physics Letters</i> , <b>2012</b> , 523, 74-77               | 2.5  | 9   |
| 77 | Role of geometry, substrate and atmosphere on performance of OFETs based on TTF derivatives. <i>Organic Electronics</i> , <b>2012</b> , 13, 121-128  | 3.5  | 16  |
| 76 | Microstructured objects produced by the supramolecular hierarchical assembly of an organic free radical gathering hydrophobic-amphiphilic characteristics. <i>Chemical Science</i> , <b>2012</b> , 3, 1958   | 9.4  | 17  |
| 75 | Organic metal-organic semiconductor blended contacts in single crystal field-effect transistors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16011   |      | 13  |
| 74 | Attaching persistent organic free radicals to surfaces: how and why. <i>Chemical Reviews</i> , <b>2012</b> , 112, 2506-2581  | 28.1 | 140 |
| 73 | Detection of the early stage of recombinational DNA repair by silicon nanowire transistors. <i>Nano Letters</i> , <b>2012</b> , 12, 1275-81  | 11.5 | 29  |

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| 72 | Evidence of intrinsic ambipolar charge transport in a high band gap organic semiconductor. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 345-348   |      | 8   |
| 71 | Charge transport through unpaired spin-containing molecules on surfaces. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13883   |      | 14  |
| 70 | Highly piezoresistive textiles based on a soft conducting charge transfer salt. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 637-640  |      | 23  |
| 69 | Multidimensional Supramolecular Organizations Based on Polychlorotriphenyl-Methyl Radicals <b>2011</b> , 191-213   |      | 1   |
| 68 | A three-state surface-confined molecular switch with multiple channel outputs. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13256-9  | 16.4 | 71  |
| 67 | A robust molecular platform for non-volatile memory devices with optical and magnetic responses. <i>Nature Chemistry</i> , <b>2011</b> , 3, 359-64   | 17.6 | 173 |
| 66 | Role of molecular order and solid-state structure in organic field-effect transistors. <i>Chemical Reviews</i> , <b>2011</b> , 111, 4833-56  | 68.1 | 438 |
| 65 | Coupling Tetracyanoquinodimethane to Tetrathiafulvalene: A Fused TCNQ-TTF-CNQ Triad. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 11094-11098   | 3.6  | 12  |
| 64 | Coupling tetracyanoquinodimethane to tetrathiafulvalene: a fused TCNQ-TTF-CNQ triad. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 10902-6  | 16.4 | 29  |
| 63 | Electronic and structural characterisation of a tetrathiafulvalene compound as a potential candidate for ambipolar transport properties. <i>CrystEngComm</i> , <b>2011</b> , 13, 6597  | 3.3  | 16  |
| 62 | Negative differential resistance (NDR) in similar molecules with distinct redox behaviour. <i>Chemical Communications</i> , <b>2011</b> , 47, 4664-6   | 5.8  | 30  |
| 61 | Multichannel molecular switch with a surface-confined electroactive radical exhibiting tunable wetting properties. <i>Nano Letters</i> , <b>2011</b> , 11, 4382-5  | 11.5 | 40  |
| 60 | Electron-Withdrawing Substituted Tetrathiafulvalenes as Ambipolar Semiconductors <i>Chemistry of Materials</i> , <b>2011</b> , 23, 851-861   | 9.6  | 29  |
| 59 | Benzodicarbomethoxytetrathiafulvalene derivatives as soluble organic semiconductors. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 154-63  | 4.2  | 15  |
| 58 | Anisotropy in structural and physical properties in tetrathiafulvalene derivatives-based zone-cast layers as seen by Raman spectroscopy, UV-visible spectroscopy, and field effect measurements. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 014504 | 2.5  | 17  |
| 57 | <b>2010</b> ,  |      | 1   |
| 56 | Ultrasensitive piezoresistive all-organic flexible thin films. <i>Advanced Materials</i> , <b>2010</b> , 22, 977-81  | 24   | 53  |
| 55 | High-performance single crystal organic field-effect transistors based on two dithiophene-tetrathiafulvalene (DT-TTF) polymorphs. <i>Advanced Materials</i> , <b>2010</b> , 22, 4198-203   | 24   | 96  |



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|----|---|------|-----|
| 54 | Dramatic Influence of the Electronic Structure on the Conductivity through Open- and Closed-Shell Molecules. <i>Advanced Materials</i> , <b>2009</b> , 21, 1177-1181  | 24   | 44  |
| 53 | Two-leg molecular ladders formed by hierarchical self-assembly of an organic radical. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6246-52  | 16.4 | 29  |
| 52 | Organic radicals on surfaces: towards molecular spintronics. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1691-1695  |      | 100 |
| 51 | Infrared investigation of the charge ordering pattern in the organic spin ladder candidate (DTTTF) <sub>2</sub> Cu(mnt) <sub>2</sub> . <i>Solid State Sciences</i> , <b>2008</b> , 10, 1740-1744  | 3.4  | 6   |
| 50 | Sub-50 nm positioning of organic compounds onto silicon oxide patterns fabricated by local oxidation nanolithography. <i>Nanotechnology</i> , <b>2008</b> , 19, 455308  | 3.4  | 24  |
| 49 | The four polymorphic modifications of the semiconductor dibenzo-tetrathiafulvalene. <i>CrystEngComm</i> , <b>2008</b> , 10, 1899  | 3.3  | 54  |
| 48 | Self-assembled monolayers of electroactive polychlorotriphenylmethyl radicals on Au(111). <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5499-506   | 16.4 | 60  |
| 47 | Dependence of charge transfer reorganization energy on carrier localisation in organic molecular crystals. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 121-7   | 3.6  | 39  |
| 46 | Influence of SiO <sub>2</sub> surface energy on the performance of organic field effect transistors based on highly oriented, zone-cast layers of a tetrathiafulvalene derivative. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 054509        | 2.5  | 45  |
| 45 | High-mobility tetrathiafulvalene organic field-effect transistors from solution processing. <i>Organic Electronics</i> , <b>2008</b> , 9, 1101-1106   | 3.5  | 64  |
| 44 | Organic field-effect transistors (OFETs) of highly oriented films of dithiophene-tetrathiafulvalene prepared by zone casting. <i>Organic Electronics</i> , <b>2008</b> , 9, 143-148   | 3.5  | 48  |
| 43 | Novel small molecules for organic field-effect transistors: towards processability and high performance. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 827-38   | 58.5 | 415 |
| 42 | Self-assembled monolayers of a multifunctional organic radical. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 2215-9   | 16.4 | 56  |
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| 39 | Tetrathiafulvalene-Based Materials for Organic Field Effect Transistors. Inspection of Their Semiconductor Properties by Means of Molecular Spectroscopy and Quantum Chemistry. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10110-10118 | 3.8  | 17  |
| 38 | High Piezoresistive Organic Film for Plastic Pressure Sensors <b>2007</b> ,   |      | 1   |
| 37 | Large photoresponsivity in high-mobility single-crystal organic field-effect phototransistors. <i>ChemPhysChem</i> , <b>2006</b> , 7, 86-8  | 3.2  | 69  |

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|----|---|------|-----|
| 36 | Electrical transport measurements on self-assembled organic molecular wires. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 154704   | 3.9  | 16  |
| 35 | Tetrathiafulvalene derivatives for organic field effect transistors. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 433-436  |      | 131 |
| 34 | Direct micro-patterning of TTF-based organic conductors on flexible substrates. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 543   |      | 8   |
| 33 | Efficient High Area OFETs by Solution Based Processing of a $\pi$ -Electron Rich Donor. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 4724-4729   | 9.6  | 76  |
| 32 | Evaluation of charge transfer degree in the bis(ethylenethio)tetrathiafulvalene salts by Raman spectroscopy. <i>Synthetic Metals</i> , <b>2006</b> , 156, 75-80   | 3.6  | 3   |
| 31 | Organic Spin Ladders from Tetrathiafulvalene (TTF) Derivatives. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1023-1035  | 15.6 | 31  |
| 30 | Electrochemical growth of organic conducting microcrystals of tetrathiafulvalene bromide. <i>Small</i> , <b>2005</b> , 1, 806-8   | 11   | 21  |
| 29 | Single-crystal organic field-effect transistors based on dibenzo-tetrathiafulvalene. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 012110  | 3.4  | 124 |
| 28 | Importance of intermolecular interactions in assessing hopping mobilities in organic field effect transistors: pentacene versus dithiophene-tetrathiafulvalene. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 6544-5   | 16.4 | 156 |
| 27 | Correlation between crystal structure and mobility in organic field-effect transistors based on single crystals of tetrathiafulvalene derivatives. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8546-53   | 16.4 | 245 |
| 26 | Field effect transistors based on poly(3-hexylthiophene) at different length scales. <i>Nanotechnology</i> , <b>2004</b> , 15, S265-S269  | 3.4  | 69  |
| 25 | Towards supramolecular electronics. <i>Synthetic Metals</i> , <b>2004</b> , 147, 43-48  | 3.6  | 43  |
| 24 | Temperature dependence of the electrical properties of single-crystals of dithiophene-tetrathiafulvalene (DT-TTF). <i>Synthetic Metals</i> , <b>2004</b> , 146, 265-268   | 3.6  | 20  |
| 23 | High mobility of dithiophene-tetrathiafulvalene single-crystal organic field effect transistors. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 984-5   | 16.4 | 314 |
| 22 | Charge disproportionate state of BEDT-TTF salts. <i>European Physical Journal Special Topics</i> , <b>2004</b> , 114, 397-399   |      | 3   |
| 21 | New Molecular Charge-Transfer Salts of TM-TTF and BMDT-TTF with Thiocyanate and Selenocyanate Complex Anions [TMTTF = Tetramethyltetrathiafulvalene; BMDT-TTF = Bis(methylenedithio)tetrathiafulvalene]. <i>European Journal of Inorganic Chemistry</i> , <b>2003</b> , 2003, 720-725 | 2.3  | 15  |
| 20 | Isolated Single-Molecule Magnets on the Surface of a Polymeric Thin Film. <i>Advanced Materials</i> , <b>2003</b> , 15, 42-45   | 24   | 79  |
| 19 | Molecular compounds based on DT-TTF and Au(cdc) 2 complex. Structural, magnetic and electrical properties. <i>Polyhedron</i> , <b>2003</b> , 22, 2415-2422  | 2.7  | 5   |

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| 18 | Bulk spontaneous magnetization in the new radical cation salt TM-TTF[Cr(NCS)(4)(isoquinoline)(2)] (TM-TTF = tetramethyltetrathiafulvalene). <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 7544-9  | 5.1  | 23 |
| 17 | Pressure effect on the electrical properties of the ladder compounds (DT-TTF) <sub>2</sub> [M(mnt) <sub>2</sub> ], M=Au, Pt, Ni. <i>Synthetic Metals</i> , <b>2003</b> , 133-134, 405-406  | 3.6  | 2  |
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| 15 | Two New Families of Charge Transfer Solids Based on [M(mnt) <sub>2</sub> ] <sub>n</sub> and the Donors BMDT-TTF and EDT-TTF: Conducting and Magnetic Properties. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 168, 563-572              | 3.3  | 21 |
| 14 | Electronic localization in an extreme 1-D conductor: the organic salt (TTDM-TTF) [Au(mnt)]. <i>European Physical Journal B</i> , <b>2002</b> , 29, 27-33   | 1.2  | 15 |
| 13 | Isolation and characterization of four isomers of a C(60) bisadduct with a TTF derivative. Study of their radical ions. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 566-75   | 4.2  | 20 |
| 12 | New Molecular Conductors Based on ETEDT-TTF Trihalides: From Single Crystals to Conducting Layers of Nanocrystals. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 3295-3304   | 9.6  | 12 |
| 11 | Synthesis improvement, crystal structure and a charge-transfer complex of a sulphur dioxide-containing TTF derivative. <i>Synthetic Metals</i> , <b>2002</b> , 128, 155-159  | 3.6  | 2  |
| 10 | Stability of Metallic State in New Hydrated Molecular Metals: (BET-TTF) <sub>2</sub> X·3H <sub>2</sub> O (X=Cl, Br) <b>2002</b> , 277-284  |      |    |
| 9  | Novel [60]fullerene-TTF cyclohexene fused polyadducts: unprecedented tri- and tetra-Diels-Alder adducts of dimethylidene[2H]tetrathiafulvalenes with C60. <i>Tetrahedron Letters</i> , <b>2001</b> , 42, 3447-3450                                 | 2    | 23 |
| 8  | New Transparent Metal-like Bilayer Composite Films with Highly Conducting Layers of [(BET-TTF) <sub>2</sub> Br]·3H <sub>2</sub> O Nanocrystals. <i>Advanced Functional Materials</i> , <b>2001</b> , 11, 299-303                                   | 15.6 | 28 |
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| 6  | Isolation of two regioisomers of a triad of C60 based on a tetrathiafulvalene derivative: HMBC NMR as a useful tool for their characterisation. <i>Synthetic Metals</i> , <b>2001</b> , 123, 523-527   | 3.6  | 5  |
| 5  | New Flexible Low-Density Metallic Materials Containing the (BEDT-TTF) <sub>2</sub> (I <sub>x</sub> Br <sub>1-x</sub> ) <sub>3</sub> Molecular Metals as Active Components. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 11089-11097 | 3.4  | 17 |
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| 3  | Radical-ion salts based on C60-TTF fused dyads. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1488-1489   | 3.6  |    |
| 2  | Organic Field-Effect Transistors Based on Ternary Blends Including a Fluorinated Polymer for Achieving Enhanced Device Stability. <i>Advanced Materials Interfaces</i> , 2101679   | 4.6  | 3  |
| 1  | Chemical Doping of the Organic Semiconductor C8-BTBT-C8 Using an Aqueous Iodine Solution for Device Mobility Enhancement. <i>Advanced Materials Technologies</i> , 2101535   | 6.8  | 2  |

