

# Emanuele Treossi

## List of Publications by Citations

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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.

54  
papers

5,025  
citations

32  
h-index

55  
g-index

55  
ext. papers

5,621  
ext. citations

8.4  
avg, IF

4.82  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 54 | Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , <b>2015</b> , 7, 4598-810   | 7.7  | 2015      |
| 53 | High-contrast visualization of graphene oxide on dye-sensitized glass, quartz, and silicon by fluorescence quenching. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15576-7                                    | 16.4 | 267       |
| 52 | Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001  | 5.9  | 179       |
| 51 | Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. <i>Small</i> , <b>2015</b> , 11, 3985-94  | 9.4  | 176       |
| 50 | Graphene Oxide as a Practical Solution to High Sensitivity Gas Sensing. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10683-10690   | 3.8  | 170       |
| 49 | Graphene: The Exfoliation of Graphene in Liquids by Electrochemical, Chemical, and Sonication-Assisted Techniques: A Nanoscale Study (Adv. Funct. Mater. 37/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4756-4756 | 15.6 | 160       |
| 48 | Evidencing the mask effect of graphene oxide: a comparative study on primary human and murine phagocytic cells. <i>Nanoscale</i> , <b>2013</b> , 5, 11234-47  | 7.7  | 146       |
| 47 | Local current mapping and patterning of reduced graphene oxide. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14130-6  | 16.4 | 126       |
| 46 | Charge transport in graphene/polythiophene blends as studied by Kelvin Probe Force Microscopy and transistor characterization. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2924   |      | 122       |
| 45 | Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. <i>Nanoscale</i> , <b>2013</b> , 5, 4205-16   | 7.7  | 109       |
| 44 | Electrochemical Functionalization of Graphene at the Nanoscale with Self-Assembling Diazonium Salts. <i>ACS Nano</i> , <b>2016</b> , 10, 7125-34  | 16.7 | 102       |
| 43 | Accurate chemical analysis of oxygenated graphene-based materials using X-ray photoelectron spectroscopy. <i>Carbon</i> , <b>2019</b> , 143, 268-275  | 10.4 | 98        |
| 42 | Fragmentation and exfoliation of 2-dimensional materials: a statistical approach. <i>Nanoscale</i> , <b>2014</b> , 6, 5926-33   | 7.7  | 86        |
| 41 | Large work function shift of gold induced by a novel perfluorinated azobenzene-based self-assembled monolayer. <i>Advanced Materials</i> , <b>2013</b> , 25, 432-6  | 24   | 81        |
| 40 | Non-conventional Processing and Post-processing Methods for the Nanostructuring of Conjugated Materials for Organic Electronics. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1279-1295                                   | 15.6 | 76        |
| 39 | Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9052   |      | 74        |
| 38 | Structural reinforcement and failure analysis in composite nanofibers of graphene oxide and gelatin. <i>Carbon</i> , <b>2014</b> , 78, 566-577  | 10.4 | 71        |

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|----|---|------|----|
| 37 | Evolution of the size and shape of 2D nanosheets during ultrasonic fragmentation. <i>2D Materials</i> , <b>2017</b> , 4, 025017   | 5.9  | 68 |
| 36 | Solvent vapour annealing of organic thin films: controlling the self-assembly of functional systems across multiple length scales. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2493                   |      | 57 |
| 35 | Cooperative Effect of GO and Glucose on PEDOT:PSS for High VOC and Hysteresis-Free Solution-Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6985-6994                    | 15.6 | 55 |
| 34 | Synergic Exfoliation of Graphene with Organic Molecules and Inorganic Ions for the Electrochemical Production of Flexible Electrodes. <i>ChemPlusChem</i> , <b>2014</b> , 79, 439-446                               | 2.8  | 52 |
| 33 | Graphene transistors via in situ voltage-induced reduction of graphene-oxide under ambient conditions. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14320-6                                 | 16.4 | 50 |
| 32 | The relationship between nanoscale architecture and charge transport in conjugated nanocrystals bridged by multichromophoric Polymers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 7055-63 | 16.4 | 50 |
| 31 | Multicolor, large-area fluorescence sensing through oligothiophene-self-assembled monolayers. <i>Chemical Communications</i> , <b>2011</b> , 47, 1689-91  | 5.8  | 49 |
| 30 | Temperature-enhanced solvent vapor annealing of a C3 symmetric hexa-peri-hexabenzocoronene: controlling the self-assembly from nano- to macroscale. <i>Small</i> , <b>2009</b> , 5, 112-9                           | 11   | 49 |
| 29 | Use of Optical Contrast To Estimate the Degree of Reduction of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 620-625  | 3.8  | 40 |
| 28 | Large area extreme-UV lithography of graphene oxide via spatially resolved photoreduction. <i>Langmuir</i> , <b>2012</b> , 28, 5489-95  | 4    | 40 |
| 27 | The Exfoliation of Graphene in Liquids by Electrochemical, Chemical, and Sonication-Assisted Techniques: A Nanoscale Study. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, n/a-n/a                        | 15.6 | 39 |
| 26 | Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , <b>2019</b> , 6, 025006   | 5.9  | 39 |
| 25 | Observation of different charge transport regimes and large magnetoresistance in graphene oxide layers. <i>Carbon</i> , <b>2015</b> , 89, 188-196   | 10.4 | 35 |
| 24 | Graphene oxide for gas detection under standard humidity conditions. <i>2D Materials</i> , <b>2015</b> , 2, 035018  | 5.9  | 35 |
| 23 | Reduction dependent wetting properties of graphene oxide. <i>Carbon</i> , <b>2014</b> , 77, 473-480   | 10.4 | 34 |
| 22 | Enhanced mobility in P3HT-based OTFTs upon blending with a phenylene-thiophene-thiophene-phenylene small molecule. <i>Chemical Communications</i> , <b>2012</b> , 48, 1562-4  | 5.8  | 28 |
| 21 | Graphene/organic hybrids as processable, tunable platforms for pH-dependent photoemission, obtained by a new modular approach. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18237                      |      | 27 |
| 20 | Playing peekaboo with graphene oxide: a scanning electrochemical microscopy investigation. <i>Chemical Communications</i> , <b>2014</b> , 50, 13117-20  | 5.8  | 26 |

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|----|--|------|----|
| 19 | Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. <i>Nanoscale</i> , <b>2016</b> , 8, 6739-53   | 7.7  | 22 |
| 18 | Soft confinement of water in graphene-oxide membranes. <i>Carbon</i> , <b>2016</b> , 108, 199-203  | 10.4 | 19 |
| 17 | UV Reduced Graphene Oxide PEDOT:PSS Nanocomposite for Perovskite Solar Cells. <i>IEEE Nanotechnology Magazine</i> , <b>2016</b> , 15, 725-730  | 2.6  | 18 |
| 16 | Dose and wavelength dependent study of graphene oxide photoreduction with VUV Synchrotron radiation. <i>Carbon</i> , <b>2014</b> , 79, 478-485   | 10.4 | 17 |
| 15 | Improved Biocompatibility of Amino-Functionalized Graphene Oxide in <i>Caenorhabditis elegans</i> . <i>Small</i> , <b>2019</b> , 15, e1902699  | 11   | 16 |
| 14 | Modulation of charge transport properties of reduced graphene oxide by submonolayer physisorption of an organic dye. <i>Organic Electronics</i> , <b>2013</b> , 14, 1787-1792  | 3.5  | 15 |
| 13 | Polymeric micelles using pseudo-amphiphilic block copolymers and their cellular uptake. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2555   |      | 13 |
| 12 | Large-area bi-component processing of organic semiconductors by spray deposition and spin coating with orthogonal solvents. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 95, 15-20                                 | 2.6  | 12 |
| 11 | GO/PEDOT:PSS nanocomposites: effect of different dispersing agents on rheological, thermal, wettability and electrochemical properties. <i>Nanotechnology</i> , <b>2017</b> , 28, 174001   | 3.4  | 11 |
| 10 | Self-complementary nucleoside-thiophene hybrid systems: synthesis and supramolecular organization. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 351-5  | 4.8  | 10 |
| 9  | Electrostatic transparency of graphene oxide sheets. <i>Carbon</i> , <b>2015</b> , 86, 188-196   | 10.4 | 9  |
| 8  | Thermal treatment and chemical doping of semi-transparent graphene films. <i>Organic Electronics</i> , <b>2015</b> , 18, 53-60   | 3.5  | 9  |
| 7  | Graphene oxide-polysulfone filters for tap water purification, obtained by fast microwave oven treatment. <i>Nanoscale</i> , <b>2019</b> , 11, 22780-22787   | 7.7  | 8  |
| 6  | Improving charge transport in poly(3-hexylthiophene) transistors via blending with an alkyl-substituted phenylene-thiophene-thiophene-phenylene molecule. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 642-649 | 2.6  | 6  |
| 5  | Enhancing triboelectric performances of electrospun poly(vinylidene fluoride) with graphene oxide sheets. <i>Graphene Technology</i> , <b>2020</b> , 5, 49-57  | 1.8  | 3  |
| 4  | Graphene glial-interfaces: challenges and perspectives. <i>Nanoscale</i> , <b>2021</b> , 13, 4390-4407   | 7.7  | 3  |
| 3  | The role of charge transfer at reduced graphene oxide/organic semiconductor interface on the charge transport properties. <i>Organic Electronics</i> , <b>2020</b> , 77, 105499  | 3.5  | 2  |
| 2  | Lateral dimension and amino-functionalization on the balance to assess the single-cell toxicity of graphene on fifteen immune cell types.. <i>NanoImpact</i> , <b>2021</b> , 23, 100330  | 5.6  | 1  |

- 1 Polymeric Micelles Using Pseudo-Amphiphilic Block Copolymers. *Macromolecular Symposia*, **2012**, 313-314, 51-58 o.8