

Vittorio Morandi

List of Publications by Year in descending order

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185
papers

7,417
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times ranked

13121
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810. | 5.6 | 2,452 |
| 2 | Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001. | 4.4 | 333 |
| 3 | Graphene: The Exfoliation of Graphene in Liquids by Electrochemical, Chemical, and Sonication-Assisted Techniques: A Nanoscale Study (<i>Adv. Funct. Mater.</i> 37/2013). <i>Advanced Functional Materials</i> , 2013, 23, 4756-4756. | 14.9 | 184 |
| 4 | Conversion of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Au-based catalysts: Optimization of active phase and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 520-530. | 20.2 | 177 |
| 5 | Surfactant-free single-layer graphene in water. <i>Nature Chemistry</i> , 2017, 9, 347-352. | 13.6 | 175 |
| 6 | Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. <i>Nanoscale</i> , 2013, 5, 4205. | 5.6 | 116 |
| 7 | Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23240-23248. | 3.1 | 104 |
| 8 | Fragmentation and exfoliation of 2-dimensional materials: a statistical approach. <i>Nanoscale</i> , 2014, 6, 5926-5933. | 5.6 | 100 |
| 9 | Light-enhanced liquid-phase exfoliation and current photoswitching in graphene-azobenzene composites. <i>Nature Communications</i> , 2016, 7, 11090. | 12.8 | 97 |
| 10 | NiMoO ₄ @Co ₃ O ₄ Core-Shell Nanorods: In Situ Catalyst Reconstruction toward High Efficiency Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021, 11, 2101324. | 19.5 | 97 |
| 11 | Engineering interfacial structure in Giant-PbS/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541. | 16.0 | 88 |
| 12 | A Supramolecular Strategy to Leverage the Liquid-Phase Exfoliation of Graphene in the Presence of Surfactants: Unraveling the Role of the Length of Fatty Acids. <i>Small</i> , 2015, 11, 1691-1702. | 10.0 | 87 |
| 13 | Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. <i>Journal of Materials Chemistry</i> , 2010, 20, 9052. | 6.7 | 82 |
| 14 | Graphene solutions. <i>Chemical Communications</i> , 2011, 47, 5470-5472. | 4.1 | 78 |
| 15 | Liquid-Phase Exfoliation of Graphite into Single- and Few-Layer Graphene with \pm -Functionalized Alkanes. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2714-2721. | 4.6 | 73 |
| 16 | Self-Powered Photodetectors Based on Core-Shell Zn-Co ₃ O ₄ Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23454-23462. | 8.0 | 71 |
| 17 | Graphene-based coatings on polymer films for gas barrier applications. <i>Carbon</i> , 2016, 96, 503-512. | 10.3 | 69 |
| 18 | Conductive Sub-micrometric Wires of Platinum-Carbonyl Clusters Fabricated by Soft-Lithography. <i>Journal of the American Chemical Society</i> , 2008, 130, 1177-1182. | 13.7 | 68 |

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|----|--|------|-----------|
| 19 | High-Temperature Growth of Graphene Films on Copper Foils by Ethanol Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21569-21576. | 3.1 | 68 |
| 20 | Hydrogen Desorption Below 150 Å°C in MgH ₂ •TiH ₂ Composite Nanoparticles: Equilibrium and Kinetic Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11166-11177. | 3.1 | 68 |
| 21 | Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , 2019, 6, 025006. | 4.4 | 68 |
| 22 | Advanced Electrocatalysts for Hydrogen Evolution Reaction Based on Core•Shell MoS ₂ /TiO ₂ Nanostructures in Acidic and Alkaline Media. <i>ACS Applied Energy Materials</i> , 2019, 2, 2053-2062. | 5.1 | 67 |
| 23 | Synergic Exfoliation of Graphene with Organic Molecules and Inorganic Ions for the Electrochemical Production of Flexible Electrodes. <i>ChemPlusChem</i> , 2014, 79, 439-446. | 2.8 | 60 |
| 24 | Design of nano-sized FeOx and Au/FeOx catalysts supported on CeO2 for total oxidation of VOC. <i>Applied Catalysis A: General</i> , 2011, 395, 10-18. | 4.3 | 59 |
| 25 | Long-Lived Photoinduced Polarons in Organohalide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3081-3086. | 4.6 | 59 |
| 26 | Folded Graphene Membranes: Mapping Curvature at the Nanoscale. <i>Nano Letters</i> , 2012, 12, 5207-5212. | 9.1 | 55 |
| 27 | Ag ₂ S/MoS ₂ Nanocomposites Anchored on Reduced Graphene Oxide: Fast Interfacial Charge Transfer for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22380-22389. | 8.0 | 55 |
| 28 | Dual emission in asymmetric •PbS/CdS/CdS core/shell/shell quantum dots. <i>Nanoscale</i> , 2016, 8, 4217-4226. | 5.6 | 54 |
| 29 | Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 340-346. | 7.8 | 53 |
| 30 | High surface area graphene foams by chemical vapor deposition. <i>2D Materials</i> , 2016, 3, 045013. | 4.4 | 53 |
| 31 | Catalytic combustion of toluene over cluster-derived gold/iron catalysts. <i>Applied Catalysis A: General</i> , 2010, 372, 138-146. | 4.3 | 52 |
| 32 | Regenerable Resistive Switching in Silicon Oxide Based Nanojunctions. <i>Advanced Materials</i> , 2012, 24, 1197-1201. | 21.0 | 52 |
| 33 | The Exfoliation of Graphene in Liquids by Electrochemical, Chemical, and Sonication-Assisted Techniques: A Nanoscale Study. <i>Advanced Functional Materials</i> , 2013, 23, 4684-4693. | 14.9 | 50 |
| 34 | Solutions of fully exfoliated individual graphene flakes in low boiling point solvents. <i>Soft Matter</i> , 2012, 8, 7882. | 2.7 | 46 |
| 35 | Hematite nanostructures: An old material for a new story. Simultaneous photoelectrochemical oxidation of benzylamine and hydrogen production through Ti doping. <i>Nano Energy</i> , 2019, 61, 36-46. | 16.0 | 46 |
| 36 | Decorating vertically aligned MoS ₂ nanoflakes with silver nanoparticles for inducing a bifunctional electrocatalyst towards oxygen evolution and oxygen reduction reaction. <i>Nano Energy</i> , 2021, 81, 105664. | 16.0 | 46 |

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|----|--|------|-----------|
| 37 | Gold Nanoparticles Uptake and Cytotoxicity Assessed on Rat Liver Precision-Cut Slices. <i>Toxicological Sciences</i> , 2012, 128, 186-197. | 3.1 | 43 |
| 38 | Graphene as transparent front contact for dye sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 135, 99-105. | 6.2 | 40 |
| 39 | Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2877-2886. | 5.5 | 39 |
| 40 | Rapid and highly efficient growth of graphene on copper by chemical vapor deposition of ethanol. <i>Thin Solid Films</i> , 2014, 571, 139-144. | 1.8 | 38 |
| 41 | Electrochemically exfoliated graphene oxide/iron oxide composite foams for lithium storage, produced by simultaneous graphene reduction and Fe(OH) ₃ condensation. <i>Carbon</i> , 2015, 84, 254-262. | 10.3 | 38 |
| 42 | Permeability and Selectivity of PPO/Graphene Composites as Mixed Matrix Membranes for CO ₂ Capture and Gas Separation. <i>Polymers</i> , 2018, 10, 129. | 4.5 | 38 |
| 43 | Effects of Ta/Nb-doping on titania-based thin films for gas-sensing. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 21-28. | 7.8 | 34 |
| 44 | Newly developed electrochemical synthesis of Co-based layered double hydroxides: toward noble metal-free electro-catalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11241-11249. | 10.3 | 34 |
| 45 | Novel Keplerate type polyoxometalate-surfactant-graphene hybrids as advanced electrode materials for supercapacitors. <i>Energy Storage Materials</i> , 2019, 17, 186-193. | 18.0 | 34 |
| 46 | Gas-phase synthesis of Mg@Ti nanoparticles for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 141-148. | 2.8 | 33 |
| 47 | Backscattered electron imaging and scanning transmission electron microscopy imaging of multi-layers. <i>Ultramicroscopy</i> , 2003, 94, 89-98. | 1.9 | 31 |
| 48 | Micron-sized [6,6]-phenyl C ₆₁ butyric acid methyl ester crystals grown by dip coating in solvent vapour atmosphere: interfaces for organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4473. | 2.8 | 31 |
| 49 | Poly(3-hexylthiophene) Nanoparticles Containing Thiophene-S</i></i>-dioxide: Tuning of Dimensions, Optical and Redox Properties, and Charge Separation under Illumination. <i>ACS Nano</i> , 2017, 11, 1991-1999. | 14.6 | 31 |
| 50 | Interfaces within biphasic nanoparticles give a boost to magnesium-based hydrogen storage. <i>Nano Energy</i> , 2020, 72, 104654. | 16.0 | 31 |
| 51 | Graphene-organic hybrids as processable, tunable platforms for pH-dependent photoemission, obtained by a new modular approach. <i>Journal of Materials Chemistry</i> , 2012, 22, 18237. | 6.7 | 30 |
| 52 | Nanostructured Co ₃ O ₄ electrocatalyst for OER: The role of organic polyelectrolytes as soft templates. <i>Electrochimica Acta</i> , 2021, 398, 139338. | 5.2 | 30 |
| 53 | NiCo ₂ O ₄ nanostructures loaded onto pencil graphite rod: An advanced composite material for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6650-6665. | 7.1 | 30 |
| 54 | MgO as promoter for electrocatalytic activities of Co ₃ O ₄ @MgO composite via abundant oxygen vacancies and Co ²⁺ ions towards oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 12672-12682. | 7.1 | 30 |

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|----|--|-----|-----------|
| 55 | Taguchi optimized synthesis of graphene films by copper catalyzed ethanol decomposition. <i>Diamond and Related Materials</i> , 2014, 41, 73-78. | 3.9 | 29 |
| 56 | Chemical Vapor Deposited Graphene-Based Derivative As High-Performance Hole Transport Material for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23844-23853. | 8.0 | 29 |
| 57 | Selective Gas Permeation in Graphene Oxide-Polymer Self-Assembled Multilayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11242-11250. | 8.0 | 29 |
| 58 | Ni/Al Layered Double Hydroxide and Carbon Nanomaterial Composites for Glucose Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 143-155. | 5.0 | 29 |
| 59 | Contrast and resolution versus specimen thickness in low energy scanning transmission electron microscopy. <i>Journal of Applied Physics</i> , 2007, 101, 114917. | 2.5 | 28 |
| 60 | Ultrafast and Highly Sensitive Chemically Functionalized Graphene Oxide-Based Humidity Sensors: Harnessing Device Performances via the Supramolecular Approach. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44017-44025. | 8.0 | 28 |
| 61 | Synthesis of small gold nanoparticles: Au(i) disproportionation catalyzed by a persulfurated coronene dendrimer. <i>Chemical Communications</i> , 2007, , 4167. | 4.1 | 27 |
| 62 | Additive nanoscale embedding of functional nanoparticles on silicon surface. <i>Nanoscale</i> , 2010, 2, 2069. | 5.6 | 27 |
| 63 | Silica-supported silver nanoparticles as an efficient catalyst for aromatic C-H alkylation and fluoroalkylation. <i>Dalton Transactions</i> , 2018, 47, 9608-9616. | 3.3 | 27 |
| 64 | Mercaptosilane-Passivated CuInS ₂ Quantum Dots for Luminescence Thermometry and Luminescent Labels. <i>ACS Applied Nano Materials</i> , 2019, 2, 2426-2436. | 5.0 | 26 |
| 65 | Microwave-Assisted vs. Conventional Hydrothermal Synthesis of MoS ₂ Nanosheets: Application towards Hydrogen Evolution Reaction. <i>Crystals</i> , 2020, 10, 1040. | 2.2 | 26 |
| 66 | Time and Temperature Dependence of CdS Nanoparticles Grown in a Polystyrene Matrix. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-11. | 2.7 | 25 |
| 67 | Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. <i>Chemistry of Materials</i> , 2015, 27, 4390-4397. | 6.7 | 25 |
| 68 | Enhancement of electrical and thermal conductivity of Su-8 photocrosslinked coatings containing graphene. <i>Progress in Organic Coatings</i> , 2015, 86, 143-146. | 3.9 | 25 |
| 69 | Two step synthesis of TiO ₂ -Co ₃ O ₄ composite for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9110-9122. | 7.1 | 25 |
| 70 | Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. <i>Nanoscale</i> , 2016, 8, 6739-6753. | 5.6 | 24 |
| 71 | Low-Energy STEM of Multilayers and Dopant Profiles. <i>Microscopy and Microanalysis</i> , 2005, 11, 97-104. | 0.4 | 23 |
| 72 | Controllable, eco-friendly, synthesis of highly crystalline 2D-MoS ₂ and clarification of the role of growth-induced strain. <i>2D Materials</i> , 2018, 5, 035035. | 4.4 | 23 |

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|----|--|------|-----------|
| 73 | Dispersion Stability and Surface Morphology Study of Electrochemically Exfoliated Bilayer Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15122-15130. | 3.1 | 23 |
| 74 | Controlling the Functional Properties of Oligothiophene Crystalline Nano/Microfibers via Tailoring of the Self-Assembling Molecular Precursors. <i>Advanced Functional Materials</i> , 2018, 28, 1801946. | 14.9 | 21 |
| 75 | Biomimetic graphene for enhanced interaction with the external membrane of astrocytes. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5335-5342. | 5.8 | 21 |
| 76 | ITO-Free Organic Light-Emitting Transistors with Graphene Gate Electrode. <i>ACS Photonics</i> , 2014, 1, 1082-1088. | 6.6 | 20 |
| 77 | Photoactive Dendrimer for Water Photoreduction: A Scaffold to Combine Sensitizers and Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 798-803. | 4.6 | 20 |
| 78 | Water-soluble silicon nanocrystals as NIR luminescent probes for time-gated biomedical imaging. <i>Nanoscale</i> , 2020, 12, 7921-7926. | 5.6 | 20 |
| 79 | Electrosynthesis of Ni/Al layered double hydroxide and reduced graphene oxide composites for the development of hybrid capacitors. <i>Electrochimica Acta</i> , 2021, 365, 137294. | 5.2 | 19 |
| 80 | Images of dopant profiles in low-energy scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2002, 81, 4535-4537. | 3.3 | 18 |
| 81 | Reductive dismantling and functionalization of carbon nanohorns. <i>Chemical Communications</i> , 2015, 51, 5017-5019. | 4.1 | 18 |
| 82 | Graphene as transparent conducting layer for high temperature thin film device applications. <i>Solar Energy Materials and Solar Cells</i> , 2015, 138, 35-40. | 6.2 | 18 |
| 83 | Scanning electron microscopy of thinned specimens: From multilayers to biological samples. <i>Applied Physics Letters</i> , 2007, 90, 163113. | 3.3 | 17 |
| 84 | Control of the size and density of ZnO-nanorods grown onto graphene nanoplatelets in aqueous suspensions. <i>RSC Advances</i> , 2016, 6, 83217-83225. | 3.6 | 17 |
| 85 | Chirality dependent surface adhesion of single-walled carbon nanotubes on graphene surfaces. <i>Carbon</i> , 2010, 48, 3050-3056. | 10.3 | 16 |
| 86 | Large-area patterning of substrate-conformal MoS ₂ nano-trenches. <i>Nano Research</i> , 2019, 12, 1851-1854. | 10.4 | 16 |
| 87 | A robust, modular approach to produce grapheneâ€“MO _x multilayer foams as electrodes for Li-ion batteries. <i>Nanoscale</i> , 2019, 11, 5265-5273. | 5.6 | 16 |
| 88 | Quantitative determination of the dopant distribution in Si ultrashallow junctions by tilted sample annular dark field scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2008, 92, 261907. | 3.3 | 15 |
| 89 | Surface electrostatic potentials in carbon nanotubes and graphene membranes investigated with electron holography. <i>Carbon</i> , 2011, 49, 1423-1429. | 10.3 | 15 |
| 90 | Self-assembly and electrical properties of a novel heptameric thiopheneâ€“benzothiadiazole based architectures. <i>Chemical Communications</i> , 2012, 48, 12162. | 4.1 | 15 |

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|-----|--|------|-----------|
| 91 | Growth and properties of nanostructured titanium dioxide deposited by supersonic plasma jet deposition. <i>Applied Surface Science</i> , 2017, 425, 407-415. | 6.1 | 15 |
| 92 | Bioinspired Design of Graphene-Based Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2007458. | 14.9 | 15 |
| 93 | Facile NiCo ₂ S ₄ /C nanocomposite: an efficient material for water oxidation. <i>Tungsten</i> , 2020, 2, 403-410. | 4.8 | 15 |
| 94 | Spatial resolution and energy filtering of backscattered electron images in scanning electron microscopy. <i>Ultramicroscopy</i> , 2001, 88, 139-150. | 1.9 | 14 |
| 95 | Nano-graphene growth and texturing by Nd:YAG pulsed laser ablation of graphite on Silicon. <i>Journal of Physics: Conference Series</i> , 2007, 59, 616-624. | 0.4 | 14 |
| 96 | Nickel-cobalt bimetallic sulfide NiCo ₂ S ₄ nanostructures for a robust hydrogen evolution reaction in acidic media. <i>RSC Advances</i> , 2020, 10, 22196-22203. | 3.6 | 14 |
| 97 | Binder-free nanostructured germanium anode for high resilience lithium-ion battery. <i>Electrochimica Acta</i> , 2022, 411, 139832. | 5.2 | 14 |
| 98 | Graphene-Epoxy Flexible Transparent Capacitor Obtained By Graphene-Polymer Transfer and UV-Induced Bonding. <i>Macromolecular Rapid Communications</i> , 2014, 35, 355-359. | 3.9 | 13 |
| 99 | Tailoring of quantum dot emission efficiency by localized surface plasmon polaritons in self-organized mesoscopic rings. <i>Nanoscale</i> , 2014, 6, 741-744. | 5.6 | 13 |
| 100 | One-Step Synthesis of Metal/Oxide Nanocomposites by Gas Phase Condensation. <i>Nanomaterials</i> , 2019, 9, 219. | 4.1 | 13 |
| 101 | Scanning electron microscopy of dopant distribution in semiconductors. <i>Applied Physics Letters</i> , 2005, 86, 101916. | 3.3 | 12 |
| 102 | Microwave-assisted synthesis of Au, Ag and Au-Ag nanoparticles and their catalytic activities for the reduction of nitrophenol. <i>Studies in Surface Science and Catalysis</i> , 2010, , 621-624. | 1.5 | 12 |
| 103 | Uniform Functionalization of High-Quality Graphene with Platinum Nanoparticles for Electrocatalytic Water Reduction. <i>ChemistryOpen</i> , 2015, 4, 268-273. | 1.9 | 12 |
| 104 | Large area fabrication of self-standing nanoporous graphene-on-PMMA substrate. <i>Materials Letters</i> , 2016, 184, 47-51. | 2.6 | 12 |
| 105 | Silica Nanospheres Coated by Ultrasmall Ag ₀ Nanoparticles for Oxidative Catalytic Application. <i>Colloids and Interface Science Communications</i> , 2017, 21, 1-5. | 4.1 | 12 |
| 106 | Cooperative and Reversible Anisotropic Assembly of Gold Nanoparticles by Modulation of Noncovalent Interparticle Interactions. <i>ChemNanoMat</i> , 2017, 3, 874-878. | 2.8 | 12 |
| 107 | High valence transition metal-doped olivine cathodes for superior energy and fast cycling lithium batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25727-25738. | 10.3 | 12 |
| 108 | Au-Decorated Ce-Ti Mixed Oxides for Efficient CO Preferential Photooxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38019-38030. | 8.0 | 12 |

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|-----|--|------|-----------|
| 109 | Chrysalis-Like Graphene Oxide Decorated Vanadium-Based Nanoparticles: An Extremely High-Power Cathode for Magnesium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070547. | 2.9 | 11 |
| 110 | Ge growth on porous silicon: The effect of buffer porosity on the epilayer crystalline quality. <i>Applied Physics Letters</i> , 2014, 105, 122104. | 3.3 | 10 |
| 111 | Biological application of Compressed Sensing Tomography in the Scanning Electron Microscope. <i>Scientific Reports</i> , 2016, 6, 33354. | 3.3 | 10 |
| 112 | Reduced graphene oxide-ZnO hybrid composites as photocatalysts: The role of nature of the molecular target in catalytic performance. <i>Ceramics International</i> , 2021, 47, 19346-19355. | 4.8 | 10 |
| 113 | CdSe Spherical Quantum Dots Stabilised by Thiomalic Acid: Biphasic Wet Synthesis and Characterisation. <i>ChemPhysChem</i> , 2011, 12, 863-870. | 2.1 | 9 |
| 114 | Bionic synthesis of a magnetic calcite skeletal structure through living foraminifera. <i>Materials Horizons</i> , 2019, 6, 1862-1867. | 12.2 | 9 |
| 115 | Structure, morphology and magnetic properties of Au/Fe ₃ O ₄ nanocomposites fabricated by a soft aqueous route. <i>Ceramics International</i> , 2019, 45, 449-456. | 4.8 | 9 |
| 116 | ZnO Nanostructured Thin Films via Supersonic Plasma Jet Deposition. <i>Coatings</i> , 2020, 10, 788. | 2.6 | 9 |
| 117 | Processable Thiophene-Based Polymers with Tailored Electronic Properties and their Application in Solid-State Electrochromic Devices Using Nanoparticle Films. <i>Advanced Electronic Materials</i> , 2021, 7, 2100166. | 5.1 | 9 |
| 118 | The structural and electronic properties of compound Sn _m O _n clusters studied by the Density Functional Theory. <i>European Physical Journal B</i> , 2006, 51, 307-313. | 1.5 | 8 |
| 119 | Dopant regions imaging in scanning electron microscopy. <i>Journal of Applied Physics</i> , 2006, 99, 043512. | 2.5 | 8 |
| 120 | Enhanced Performance of Graphene-Epoxy Flexible Capacitors by Means of Ceramic Fillers. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 707-713. | 2.2 | 8 |
| 121 | High yield production of graphene-Fe ₂ O ₃ nano-composites via electrochemical intercalation of nitromethane and iron chloride, and their application in lithium storage. <i>FlatChem</i> , 2017, 3, 8-15. | 5.6 | 8 |
| 122 | Controlled Functionalization of Reduced Graphene Oxide Enabled by Microfluidic Reactors. <i>Chemistry of Materials</i> , 2018, 30, 2905-2914. | 6.7 | 8 |
| 123 | Mechanical and electrical characterization of CVD-grown graphene transferred on chalcogenide Ge ₂ Sb ₂ Te ₅ layers. <i>Carbon</i> , 2018, 132, 141-151. | 10.3 | 8 |
| 124 | The role of the capping agent and nanocrystal size in photoinduced hydrogen evolution using CdTe/CdS quantum dot sensitizers. <i>Dalton Transactions</i> , 2020, 49, 10212-10223. | 3.3 | 8 |
| 125 | Facile deposition of palladium oxide (PdO) nanoparticles on CoNi ₂ S ₄ microstructures towards enhanced oxygen evolution reaction. <i>Nanotechnology</i> , 2022, 33, 275402. | 2.6 | 8 |
| 126 | Electrochemical Approach for the Production of Layered Double Hydroxides with a Well-Defined Co/Me _{III} Ratio. <i>Chemistry - A European Journal</i> , 2019, 25, 16301-16310. | 3.3 | 7 |

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|-----|--|------|-----------|
| 127 | Influence of the synthesis conditions on the microstructural, compositional and morphological properties of graphene oxide sheets. <i>Ceramics International</i> , 2020, 46, 22067-22078. | 4.8 | 6 |
| 128 | Controlled Deposition of Nanostructured Hierarchical TiO ₂ Thin Films by Low Pressure Supersonic Plasma Jets. <i>Nanomaterials</i> , 2022, 12, 533. | 4.1 | 6 |
| 129 | A computational study on CO adsorption onto SnO ₂ small grains. <i>Sensors and Actuators A: Physical</i> , 2006, 126, 56-61. | 4.1 | 5 |
| 130 | Plasma assisted vapor solid deposition of Co ₃ O ₄ tapered nanorods for energy applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26302-26310. | 10.3 | 5 |
| 131 | Electrosynthesis and characterization of Layered Double Hydroxides on different supports. <i>Applied Clay Science</i> , 2021, 202, 105949. | 5.2 | 5 |
| 132 | Luminescent silicon nanocrystals appended with photoswitchable azobenzene units. <i>Nanoscale</i> , 2021, 13, 12460-12465. | 5.6 | 5 |
| 133 | Controllable Synthesis of 2D Nonlayered Cr ₂ S ₃ Nanosheets and Their Electrocatalytic Activity Toward Oxygen Evolution Reaction. <i>Frontiers in Chemical Engineering</i> , 2021, 3, . | 2.7 | 5 |
| 134 | NiMoO ₄ @Co ₃ O ₄ Core-Shell Nanorods: In Situ Catalyst Reconstruction toward High Efficiency Oxygen Evolution Reaction (<i>Adv. Energy Mater.</i> 32/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170128. | 19.5 | 5 |
| 135 | Microstructural features assessment of different waterlogged wood species by NMR diffusion validated with complementary techniques. <i>Magnetic Resonance Imaging</i> , 2021, 83, 139-151. | 1.8 | 5 |
| 136 | NiNPs@rGO Nanocomposites as Heterogenous Catalysts for Thiocarboxylation Cross-Coupling Reactions. <i>Synthesis</i> , 0, , . | 2.3 | 5 |
| 137 | On the spatial resolution and nanoscale feature visibility in scanning electron microscopy. <i>Advances in Imaging and Electron Physics</i> , 2002, , 375-398. | 0.2 | 4 |
| 138 | Defects in nanocrystalline SnO ₂ studied by Tight Binding. <i>European Physical Journal B</i> , 2004, 42, 435-440. | 1.5 | 4 |
| 139 | CO adsorption onto tin oxide clusters: DFT calculations. <i>Computational Materials Science</i> , 2007, 38, 814-823. | 3.0 | 4 |
| 140 | Electrical and holographic characterization of gold catalyzed titania-based layers. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4131-4134. | 5.7 | 4 |
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