# Raffaello Mazzaro

List of Publications by Year
in descending order



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|---|---|---|---|
| 58 papers | 1,947 citations | 236925<br>25 h-index | 265206<br>42 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 3257 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | MgO as promoter for electrocatalytic activities of Co3O4â€“MgO composite via abundant oxygen vacancies and Co2+ ions towards oxygen evolution reaction. International Journal of Hydrogen Energy, 2023, 48, 12672-12682. | 7.1 | 30 |
| 2 | Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15. | 24.0 | 66 |
| 3 | pH Switchable Water Dispersed Photocatalytic Nanoparticles. Chemistry - A European Journal, 2022, 28, . | 3.3 | 4 |
| 4 | Charge Separation Efficiency in WO<sub>3</sub>/BiVO<sub>4</sub> Photoanodes with CoFe Prussian Blue Catalyst Studied by Wavelengthâ€Dependent Intensityâ€Modulated Photocurrent Spectroscopy. Solar Rrl, 2022, 6, . | 5.8 | 9 |
| 5 | Indium-modified copper nanocubes for syngas production by aqueous CO<sub>2</sub> electroreduction. Dalton Transactions, 2022, 51, 10787-10798. | 3.3 | 3 |
| 6 | Decorating vertically aligned MoS2 nanoflakes with silver nanoparticles for inducing a bifunctional electrocatalyst towards oxygen evolution and oxygen reduction reaction. Nano Energy, 2021, 81, 105664. | 16.0 | 46 |
| 7 | In Situ-Generated Oxide in Sn-Doped Nickel Phosphide Enables Ultrafast Oxygen Evolution. ACS Catalysis, 2021, 11, 4520-4529. | 11.2 | 41 |
| 8 | Processable Thiopheneâ€Based Polymers with Tailored Electronic Properties and their Application in Solidâ€State Electrochromic Devices Using Nanoparticle Films. Advanced Electronic Materials, 2021, 7, 2100166. | 5.1 | 9 |
| 9 | Controllable Synthesis of 2D Nonlayered Cr2S3 Nanosheets and Their Electrocatalytic Activity Toward Oxygen Evolution Reaction. Frontiers in Chemical Engineering, 2021, 3, . | 2.7 | 5 |
| 10 | NiMoO<sub>4</sub>@Co<sub>3</sub>O<sub>4</sub> Coreâ€“Shell Nanorods: In Situ Catalyst Reconstruction toward High Efficiency Oxygen Evolution Reaction. Advanced Energy Materials, 2021, 11, 2101324. | 19.5 | 97 |
| 11 | Opportunities from Doping of Nonâ€Critical Metal Oxides in Last Generation Lightâ€Conversion Devices. Advanced Energy Materials, 2021, 11, 2101041. | 19.5 | 29 |
| 12 | Reduced graphene oxide-ZnO hybrid composites as photocatalysts: The role of nature of the molecular target in catalytic performance. Ceramics International, 2021, 47, 19346-19355. | 4.8 | 10 |
| 13 | A simple and efficient visible light photodetector based on Co3O4/ZnO composite. Optical and Quantum Electronics, 2021, 53, 1. | 3.3 | 8 |
| 14 | Bioinspired Design of Grapheneâ€Based Materials. Advanced Functional Materials, 2020, 30, 2007458. | 14.9 | 15 |
| 15 | Microwave-Assisted vs. Conventional Hydrothermal Synthesis of MoS2 Nanosheets: Application towards Hydrogen Evolution Reaction. Crystals, 2020, 10, 1040. | 2.2 | 26 |
| 16 | Au-Decorated Ceâ€“Ti Mixed Oxides for Efficient CO Preferential Photooxidation. ACS Applied Materials & Interfaces, 2020, 12, 38019-38030. | 8.0 | 12 |
| 17 | Facile NiCo2S4/C nanocomposite: an efficient material for water oxidation. Tungsten, 2020, 2, 403-410. | 4.8 | 15 |
| 18 | Water-soluble silicon nanocrystals as NIR luminescent probes for time-gated biomedical imaging. Nanoscale, 2020, 12, 7921-7926. | 5.6 | 20 |

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|---|---|---|---|
| 19 | The role of the capping agent and nanocrystal size in photoinduced hydrogen evolution using CdTe/CdS quantum dot sensitizers. Dalton Transactions, 2020, 49, 10212-10223. | 3.3 | 8 |
| 20 | Nickelâ€“cobalt bimetallic sulfide NiCo<sub>2</sub>S<sub>4</sub> nanostructures for a robust hydrogen evolution reaction in acidic media. RSC Advances, 2020, 10, 22196-22203. | 3.6 | 14 |
| 21 | Role of refractive index in highly efficient laminated luminescent solar concentrators. Nano Energy, 2020, 70, 104470. | 16.0 | 25 |
| 22 | Functional Nickel Oxide Nanostructures for Ethanol Oxidation in Alkaline Media. Electroanalysis, 2020, 32, 1052-1059. | 2.9 | 21 |
| 23 | Hybrid Silicon Nanocrystals for Color-Neutral and Transparent Luminescent Solar Concentrators. ACS Photonics, 2019, 6, 2303-2311. | 6.6 | 63 |
| 24 | Advanced Electrocatalysts for Hydrogen Evolution Reaction Based on Coreâ€“Shell MoS<sub>2</sub>/TiO<sub>2</sub> Nanostructures in Acidic and Alkaline Media. ACS Applied Energy Materials, 2019, 2, 2053-2062. | 5.1 | 67 |
| 25 | Self-Powered Photodetectors Based on Coreâ€“Shell ZnOâ€“Co<sub>3</sub>O<sub>4</sub> Nanowire Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 23454-23462. | 8.0 | 71 |
| 26 | A sensitive enzyme-free lactic acid sensor based on NiO nanoparticles for practical applications. Analytical Methods, 2019, 11, 3578-3583. | 2.7 | 39 |
| 27 | Ag<sub>2</sub>S/MoS<sub>2</sub> Nanocomposites Anchored on Reduced Graphene Oxide: Fast Interfacial Charge Transfer for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 22380-22389. | 8.0 | 55 |
| 28 | A practical non-enzymatic urea sensor based on NiCo<sub>2</sub>O<sub>4</sub> nanoneedles. RSC Advances, 2019, 9, 14443-14451. | 3.6 | 50 |
| 29 | High efficiency sandwich structure luminescent solar concentrators based on colloidal quantum dots. Nano Energy, 2019, 60, 119-126. | 16.0 | 52 |
| 30 | Hematite nanostructures: An old material for a new story. Simultaneous photoelectrochemical oxidation of benzylamine and hydrogen production through Ti doping. Nano Energy, 2019, 61, 36-46. | 16.0 | 46 |
| 31 | Plasma assisted vapor solid deposition of Co<sub>3</sub>O<sub>4</sub> tapered nanorods for energy applications. Journal of Materials Chemistry A, 2019, 7, 26302-26310. | 10.3 | 5 |
| 32 | The chemically reduced CuOâ€“Co<sub>3</sub>O<sub>4</sub> composite as a highly efficient electrocatalyst for oxygen evolution reaction in alkaline media. Catalysis Science and Technology, 2019, 9, 6274-6284. | 4.1 | 24 |
| 33 | Colloidally stable silicon quantum dots as temperature biosensors. , 2019, , . | | 0 |
| 34 | Controlled Functionalization of Reduced Graphene Oxide Enabled by Microfluidic Reactors. Chemistry of Materials, 2018, 30, 2905-2914. | 6.7 | 8 |
| 35 | Controlling the Functional Properties of Oligothiophene Crystalline Nano/Microfibers via Tailoring of the Selfâ€Assembling Molecular Precursors. Advanced Functional Materials, 2018, 28, 1801946. | 14.9 | 21 |
| 36 | Self-Assembly and Exfoliation of a Molecular Solid Based on Cooperative Bâ€“N and Hydrogen Bonds. Crystal Growth and Design, 2018, 18, 7259-7263. | 3.0 | 9 |

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|---|---|---|---|
| 37 | The Renaissance of Luminescent Solar Concentrators: The Role of Inorganic Nanomaterials. Advanced Energy Materials, 2018, 8, 1801903. | 19.5 | 109 |
| 38 | Design of Carbon Dots for Metal-free Photoredox Catalysis. ACS Applied Materials & Interfaces, 2018, 10, 40560-40567. | 8.0 | 79 |
| 39 | Luminescent europium(<scp>iii</scp>) complexes containing an electron rich 1,2,3-triazolyl-pyridyl ligand. New Journal of Chemistry, 2018, 42, 11064-11072. | 2.8 | 3 |
| 40 | Silica-supported silver nanoparticles as an efficient catalyst for aromatic Câ€“H alkylation and fluoroalkylation. Dalton Transactions, 2018, 47, 9608-9616. | 3.3 | 27 |
| 41 | Poly(3-hexylthiophene) Nanoparticles Containing Thiophene-<i>S</i>,<i>S</i>-dioxide: Tuning of Dimensions, Optical and Redox Properties, and Charge Separation under Illumination. ACS Nano, 2017, 11, 1991-1999. | 14.6 | 31 |
| 42 | Engineering thiophene-based nanoparticles to induce phototransduction in live cells under illumination. Nanoscale, 2017, 9, 9202-9209. | 5.6 | 30 |
| 43 | Contamination-free graphene by chemical vapor deposition in quartz furnaces. Scientific Reports, 2017, 7, 9927. | 3.3 | 70 |
| 44 | Long-lived luminescence of silicon nanocrystals: from principles to applications. Physical Chemistry Chemical Physics, 2017, 19, 26507-26526. | 2.8 | 53 |
| 45 | Silica Nanospheres Coated by Ultrasmall Ag0 Nanoparticles for Oxidative Catalytic Application. Colloids and Interface Science Communications, 2017, 21, 1-5. | 4.1 | 12 |
| 46 | Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 23240-23248. | 3.1 | 104 |
| 47 | Tracking graphene by fluorescence imaging: a tool for detecting multiple populations of graphene in solution. Nanoscale, 2016, 8, 8505-8511. | 5.6 | 4 |
| 48 | Photoinduced Electron-Transfer Quenching of Luminescent Silicon Nanocrystals as a Way To Estimate the Position of the Conduction and Valence Bands by Marcus Theory. Chemistry of Materials, 2016, 28, 6664-6671. | 6.7 | 21 |
| 49 | Light-enhanced liquid-phase exfoliation and current photoswitching in grapheneâ€“azobenzene composites. Nature Communications, 2016, 7, 11090. | 12.8 | 97 |
| 50 | Liquid-Phase Exfoliation of Graphite into Single- and Few-Layer Graphene with Î±-Functionalized Alkanes. Journal of Physical Chemistry Letters, 2016, 7, 2714-2721. | 4.6 | 73 |
| 51 | Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. Chemistry of Materials, 2015, 27, 4390-4397. | 6.7 | 25 |
| 52 | Uniform Functionalization of High-Quality Graphene with Platinum Nanoparticles for Electrocatalytic Water Reduction. ChemistryOpen, 2015, 4, 268-273. | 1.9 | 12 |
| 53 | Graphene: 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 (Small 14/2015). Small, 2015, 11, 1736-1736. | 10.0 | 1 |
| 54 | A Supramolecular Strategy to Leverage the Liquidâ€Phase Exfoliation of Graphene in the Presence of Surfactants: Unraveling the Role of the Length of Fatty Acids. Small, 2015, 11, 1691-1702. | 10.0 | 87 |

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| 55 | Photophysical and structural characterisation of <i>in situ</i> formed quantum dots. Physical Chemistry Chemical Physics, 2014, 16, 9556-9564. | 2.8 | 22 |
| 56 | Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. Journal of Materials Chemistry C, 2014, 2, 2877-2886. | 5.5 | 39 |
| 57 | Photoactive Dendrimer for Water Photoreduction: A Scaffold to Combine Sensitizers and Catalysts. Journal of Physical Chemistry Letters, 2014, 5, 798-803. | 4.6 | 20 |
| 58 | NiNPs@rGO Nanocomposites as Heterogenous Catalysts for Thiocarboxylation Cross-Coupling Reactions. Synthesis, 0, , . | 2.3 | 5 |