Raffaello Mazzaro

List of Publications by Year
in descending order

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58	1,947	236925 25	265206 42
papers	citations	h-index	g-index

58	58	58	3257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Renaissance of Luminescent Solar Concentrators: The Role of Inorganic Nanomaterials. Advanced Energy Materials, 2018, 8, 1801903.	19.5	109
2	Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 23240-23248.	3.1	104
3	Light-enhanced liquid-phase exfoliation and current photoswitching in grapheneâ€“azobenzene composites. Nature Communications, 2016, 7, 11090.	12.8	97
4	NiMoO₄@Co₃O₄ Coreâ€“Shell Nanorods: In Situ Catalyst Reconstruction toward High Efficiency Oxygen Evolution Reaction. Advanced Energy Materials, 2021, 11, 2101324.	19.5	97
5	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
6	Design of Carbon Dots for Metal-free Photoredox Catalysis. ACS Applied Materials & Interfaces, 2018, 10, 40560-40567.	8.0	79
7	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
8	Self-Powered Photodetectors Based on Coreâ€“Shell ZnOâ€“Co₃O₄ Nanowire Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 23454-23462.	8.0	71
9	Contamination-free graphene by chemical vapor deposition in quartz furnaces. Scientific Reports, 2017, 7, 9927.	3.3	70
10	Advanced Electrocatalysts for Hydrogen Evolution Reaction Based on Coreâ€“Shell MoS₂/TiO₂ Nanostructures in Acidic and Alkaline Media. ACS Applied Energy Materials, 2019, 2, 2053-2062.	5.1	67
11	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	24.0	66
12	Hybrid Silicon Nanocrystals for Color-Neutral and Transparent Luminescent Solar Concentrators. ACS Photonics, 2019, 6, 2303-2311.	6.6	63
13	Ag₂S/MoS₂ 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
14	Long-lived luminescence of silicon nanocrystals: from principles to applications. Physical Chemistry Chemical Physics, 2017, 19, 26507-26526.	2.8	53
15	High efficiency sandwich structure luminescent solar concentrators based on colloidal quantum dots. Nano Energy, 2019, 60, 119-126.	16.0	52
16	A practical non-enzymatic urea sensor based on NiCo₂O₄ nanoneedles. RSC Advances, 2019, 9, 14443-14451.	3.6	50
17	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
18	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

#	Article	IF	Citations
19	In Situ-Generated Oxide in Sn-Doped Nickel Phosphide Enables Ultrafast Oxygen Evolution. ACS Catalysis, 2021, 11, 4520-4529.	11.2	41
20	Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. Journal of Materials Chemistry C, 2014, 2, 2877-2886.	5.5	39
21	A sensitive enzyme-free lactic acid sensor based on NiO nanoparticles for practical applications. Analytical Methods, 2019, 11, 3578-3583.	2.7	39
22	Poly(3-hexylthiophene) Nanoparticles Containing Thiophene-S,S-dioxide: Tuning of Dimensions, Optical and Redox Properties, and Charge Separation under Illumination. ACS Nano, 2017, 11, 1991-1999.	14.6	31
23	Engineering thiophene-based nanoparticles to induce phototransduction in live cells under illumination. Nanoscale, 2017, 9, 9202-9209.	5.6	30
24	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
25	Opportunities from Doping of Nonâ€Critical Metal Oxides in Last Generation Lightâ€Conversion Devices. Advanced Energy Materials, 2021, 11, 2101041.	19.5	29
26	Silica-supported silver nanoparticles as an efficient catalyst for aromatic Câ€“H alkylation and fluoroalkylation. Dalton Transactions, 2018, 47, 9608-9616.	3.3	27
27	Microwave-Assisted vs. Conventional Hydrothermal Synthesis of MoS2 Nanosheets: Application towards Hydrogen Evolution Reaction. Crystals, 2020, 10, 1040.	2.2	26
28	Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. Chemistry of Materials, 2015, 27, 4390-4397.	6.7	25
29	Role of refractive index in highly efficient laminated luminescent solar concentrators. Nano Energy, 2020, 70, 104470.	16.0	25
30	The chemically reduced CuOâ€“Co₃O₄ composite as a highly efficient electrocatalyst for oxygen evolution reaction in alkaline media. Catalysis Science and Technology, 2019, 9, 6274-6284.	4.1	24
31	Photophysical and structural characterisation of in situ formed quantum dots. Physical Chemistry Chemical Physics, 2014, 16, 9556-9564.	2.8	22
32	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
33	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
34	Functional Nickel Oxide Nanostructures for Ethanol Oxidation in Alkaline Media. Electroanalysis, 2020, 32, 1052-1059.	2.9	21
35	Photoactive Dendrimer for Water Photoreduction: A Scaffold to Combine Sensitizers and Catalysts. Journal of Physical Chemistry Letters, 2014, 5, 798-803.	4.6	20
36	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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37	Bioinspired Design of Grapheneâ€Based Materials. Advanced Functional Materials, 2020, 30, 2007458.	14.9	15
38	Facile NiCo2S4/C nanocomposite: an efficient material for water oxidation. Tungsten, 2020, 2, 403-410.	4.8	15
39	Nickelâ€“cobalt bimetallic sulfide NiCo₂S₄ nanostructures for a robust hydrogen evolution reaction in acidic media. RSC Advances, 2020, 10, 22196-22203.	3.6	14
40	Uniform Functionalization of High-Quality Graphene with Platinum Nanoparticles for Electrocatalytic Water Reduction. ChemistryOpen, 2015, 4, 268-273.	1.9	12
41	Silica Nanospheres Coated by Ultrasmall Ag0 Nanoparticles for Oxidative Catalytic Application. Colloids and Interface Science Communications, 2017, 21, 1-5.	4.1	12
42	Au-Decorated Ceâ€“Ti Mixed Oxides for Efficient CO Preferential Photooxidation. ACS Applied Materials & Interfaces, 2020, 12, 38019-38030.	8.0	12
43	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
44	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
45	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
46	Charge Separation Efficiency in WO₃/BiVO₄ Photoanodes with CoFe Prussian Blue Catalyst Studied by Wavelengthâ€Dependent Intensityâ€Modulated Photocurrent Spectroscopy. Solar Rrl, 2022, 6, .	5.8	9
47	Controlled Functionalization of Reduced Graphene Oxide Enabled by Microfluidic Reactors. Chemistry of Materials, 2018, 30, 2905-2914.	6.7	8
48	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
49	A simple and efficient visible light photodetector based on Co3O4/ZnO composite. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
50	Plasma assisted vapor solid deposition of Co₃O₄ tapered nanorods for energy applications. Journal of Materials Chemistry A, 2019, 7, 26302-26310.	10.3	5
51	Controllable Synthesis of 2D Nonlayered Cr2S3 Nanosheets and Their Electrocatalytic Activity Toward Oxygen Evolution Reaction. Frontiers in Chemical Engineering, 2021, 3, .	2.7	5
52	NiNPs@rGO Nanocomposites as Heterogenous Catalysts for Thiocarboxylation Cross-Coupling Reactions. Synthesis, 0, , .	2.3	5
53	Tracking graphene by fluorescence imaging: a tool for detecting multiple populations of graphene in solution. Nanoscale, 2016, 8, 8505-8511.	5.6	4
54	pH Switchable Water Dispersed Photocatalytic Nanoparticles. Chemistry - A European Journal, 2022, 28, .	3.3	4

#	Article	IF	Citations
55	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
56	Indium-modified copper nanocubes for syngas production by aqueous CO₂ electroreduction. Dalton Transactions, 2022, 51, 10787-10798.	3.3	3
57	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
58	Colloidally stable silicon quantum dots as temperature biosensors. , 2019, , .		0