

Vittorio Morandi

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.

176 papers	5,671 citations	33 h-index	72 g-index
189 ext. papers	6,600 ext. citations	6.5 avg, IF	5.35 L-index

#	Paper	IF	Citations
176	Binder-free nanostructured germanium anode for high resilience lithium-ion battery. <i>Electrochimica Acta</i> , 2022 , 139832	6.7	2
175	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	6.7	6
174	All-Electrochemical Nanofabrication of Stacked Ternary Metal Sulfide/Graphene Electrodes for High-Performance Alkaline Batteries.. <i>Small</i> , 2022 , e2106403	11	0
173	Nanostructured Co ₃ O ₄ electrocatalyst for OER: The role of organic polyelectrolytes as soft templates. <i>Electrochimica Acta</i> , 2021 , 398, 139338	6.7	4
172	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	6.4	1
171	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,	1	3
170	NiMoO ₄ @Co ₃ O ₄ CoreShell Nanorods: In Situ Catalyst Reconstruction toward High Efficiency Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021 , 11, 2101324	21.8	19
169	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	6.7	6
168	Electrosynthesis and characterization of Layered Double Hydroxides on different supports. <i>Applied Clay Science</i> , 2021 , 202, 105949	5.2	1
167	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	17.1	17
166	Luminescent silicon nanocrystals appended with photoswitchable azobenzene units. <i>Nanoscale</i> , 2021 , 13, 12460-12465	7.7	1
165	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	6.7	8
164	Development of a dedicated instrumentation for electrical and thermal characterization of chemiresistive gas sensors. <i>Review of Scientific Instruments</i> , 2021 , 92, 074702	1.7	1
163	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	5.1	2
162	NiMoO ₄ @Co ₃ O ₄ CoreShell Nanorods: In Situ Catalyst Reconstruction toward High Efficiency Oxygen Evolution Reaction (Adv. Energy Mater. 32/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170128	21.8	1
161	Microstructural features assessment of different waterlogged wood species by NMR diffusion validated with complementary techniques. <i>Magnetic Resonance Imaging</i> , 2021 , 83, 139-151	3.3	3
160	Graphene-Based Materials: Bioinspired Design of Graphene-Based Materials (Adv. Funct. Mater. 51/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070336	15.6	1

159	Facile NiCo ₂ S ₄ /C nanocomposite: an efficient material for water oxidation. <i>Tungsten</i> , 2020 , 2, 403-410	4.6	5
158	Silicon Meet Graphene for a New Family of Near-Infrared Resonant Cavity Enhanced Photodetectors 2020 ,		1
157	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	3.9	6
156	Influence of the synthesis conditions on the microstructural, compositional and morphological properties of graphene oxide sheets. <i>Ceramics International</i> , 2020 , 46, 22067-22078	5.1	5
155	Water-soluble silicon nanocrystals as NIR luminescent probes for time-gated biomedical imaging. <i>Nanoscale</i> , 2020 , 12, 7921-7926	7.7	10
154	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	4.3	6
153	Nickel-cobalt bimetallic sulfide NiCoS nanostructures for a robust hydrogen evolution reaction in acidic media.. <i>RSC Advances</i> , 2020 , 10, 22196-22203	3.7	1
152	Interfaces within biphasic nanoparticles give a boost to magnesium-based hydrogen storage. <i>Nano Energy</i> , 2020 , 72, 104654	17.1	14
151	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
150	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	13	5
149	Bioinspired Design of Graphene-Based Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 2007458	15.6	8
148	Microwave-Assisted vs. Conventional Hydrothermal Synthesis of MoS ₂ Nanosheets: Application towards Hydrogen Evolution Reaction. <i>Crystals</i> , 2020 , 10, 1040	2.3	7
147	Au-Decorated Ce-Ti Mixed Oxides for Efficient CO Preferential Photooxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38019-38030	9.5	7
146	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	9.5	14
145	ZnO Nanostructured Thin Films via Supersonic Plasma Jet Deposition. <i>Coatings</i> , 2020 , 10, 788	2.9	3
144	Electrochemical Approach for the Production of Layered Double Hydroxides with a Well-Defined Co/Me Ratio. <i>Chemistry - A European Journal</i> , 2019 , 25, 16301-16310	4.8	5
143	Nanostructuring Iridium Complexes into Crystalline Phosphorescent Nanoparticles: Structural Characterization, Photophysics, and Biological Applications.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 4594-4603	4.1	3
142	AC parallel local oxidation of silicon. <i>Nanoscale Advances</i> , 2019 , 1, 3887-3891	5.1	

141	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	6.1	46
140	Bionic synthesis of a magnetic calcite skeletal structure through living foraminifera. <i>Materials Horizons</i> , 2019 , 6, 1862-1867	14.4	7
139	Self-Powered Photodetectors Based on Core-Shell ZnO-CoO Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23454-23462	9.5	36
138	AgS/MoS Nanocomposites Anchored on Reduced Graphene Oxide: Fast Interfacial Charge Transfer for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22380-22389	9.5	33
137	Dispersion Stability and Surface Morphology Study of Electrochemically Exfoliated Bilayer Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15122-15130	3.8	16
136	Large-area patterning of substrate-conformal MoS ₂ nano-trenches. <i>Nano Research</i> , 2019 , 12, 1851-1854	10	11
135	A robust, modular approach to produce graphene-MO multilayer foams as electrodes for Li-ion batteries. <i>Nanoscale</i> , 2019 , 11, 5265-5273	7.7	13
134	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	17.1	31
133	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	13	22
132	Mercaptosilane-Passivated CuInS ₂ Quantum Dots for Luminescence Thermometry and Luminescent Labels. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2426-2436	5.6	13
131	One-Step Synthesis of Metal/Oxide Nanocomposites by Gas Phase Condensation. <i>Nanomaterials</i> , 2019 , 9,	5.4	10
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	13	2
129	Ni/Al Layered Double Hydroxide and Carbon Nanomaterial Composites for Glucose Sensing. <i>ACS Applied Nano Materials</i> , 2019 , 2, 143-155	5.6	14
128	Novel Keplerate type polyoxometalate-surfactant-graphene hybrids as advanced electrode materials for supercapacitors. <i>Energy Storage Materials</i> , 2019 , 17, 186-193	19.4	19
127	Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , 2019 , 6, 025006	5.9	39
126	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	5.1	9
125	Selective Gas Permeation in Graphene Oxide-Polymer Self-Assembled Multilayers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11242-11250	9.5	20
124	Controlled Functionalization of Reduced Graphene Oxide Enabled by Microfluidic Reactors. <i>Chemistry of Materials</i> , 2018 , 30, 2905-2914	9.6	6

123	Mechanical and electrical characterization of CVD-grown graphene transferred on chalcogenide Ge2Sb2Te5 layers. <i>Carbon</i> , 2018 , 132, 141-151	10.4	8
122	Three-dimensional microporous graphene decorated with lithium. <i>Nanotechnology</i> , 2018 , 29, 405707	3.4	1
121	Biomimetic graphene for enhanced interaction with the external membrane of astrocytes. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5335-5342	7.3	11
120	Dopant profile investigation in low-energy scanning transmission electron microscopy 2018 , 545-548		
119	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	15.6	17
118	Selective Electrodesorption-Based Atomic Layer Deposition (SEBALD) of Bismuth under Morphological Control. <i>Electrochemical Society Interface</i> , 2018 , 27, 77-81	3.6	4
117	3D to 2D reorganization of silver-thiol nanostructures, triggered by solvent vapor annealing. <i>Nanoscale</i> , 2018 , 10, 23018-23026	7.7	3
116	Permeability and Selectivity of PPO/Graphene Composites as Mixed Matrix Membranes for CO ₂ Capture and Gas Separation. <i>Polymers</i> , 2018 , 10,	4.5	28
115	Silica-supported silver nanoparticles as an efficient catalyst for aromatic C-H alkylation and fluoroalkylation. <i>Dalton Transactions</i> , 2018 , 47, 9608-9616	4.3	21
114	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	5.9	11
113	Poly(3-hexylthiophene) Nanoparticles Containing Thiophene-S,S-dioxide: Tuning of Dimensions, Optical and Redox Properties, and Charge Separation under Illumination. <i>ACS Nano</i> , 2017 , 11, 1991-1999	16.7	28
112	Hydrogen Desorption Below 150 °C in MgH ₂ /TiH ₂ Composite Nanoparticles: Equilibrium and Kinetic Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11166-11177	3.8	52
111	Long-Lived Photoinduced Polarons in Organohalide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3081-3086	6.4	45
110	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	5.1	7
109	Investigation of the time-dependent failure of InGaN-based LEDs submitted to reverse-bias stress 2017 ,		1
108	Protein-Based Nanostructures and Their Self-assembly with Graphene Oxide. <i>Carbon Nanostructures</i> , 2017 , 197-210	0.6	2
107	Synthesis of High-Density Graphene Foams Using Nanoparticle Templates. <i>Carbon Nanostructures</i> , 2017 , 185-196	0.6	3
106	Silica Nanospheres Coated by Ultrasmall Ag ₀ Nanoparticles for Oxidative Catalytic Application. <i>Colloids and Interface Science Communications</i> , 2017 , 21, 1-5	5.4	9

105	Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23240-23248	3.8	78
104	Growth and properties of nanostructured titanium dioxide deposited by supersonic plasma jet deposition. <i>Applied Surface Science</i> , 2017 , 425, 407-415	6.7	7
103	Room temperature ferromagnetism in low dose ion implanted counter-doped Ge:Mn, As. <i>Physica B: Condensed Matter</i> , 2017 , 523, 1-5	2.8	0
102	Cooperative and Reversible Anisotropic Assembly of Gold Nanoparticles by Modulation of Noncovalent Interparticle Interactions. <i>ChemNanoMat</i> , 2017 , 3, 874-878	3.5	9
101	Electrically conductive gamma-alumina/amorphous carbon nano-composite foams. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 921-928	5.7	3
100	Surfactant-free single-layer graphene in water. <i>Nature Chemistry</i> , 2017 , 9, 347-352	17.6	138
99	SEM tomography for the investigation of hybrid structures. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012031	0.3	
98	Compressed sensing tomography of inorganic and biological samples in the scanning electron microscope operated in the transmission mode 2016 , 47-48		0
97	Chemical Vapor Deposited Graphene-Based Derivative As High-Performance Hole Transport Material for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23844-53	9.5	23
96	Control of the size and density of ZnO-nanorods grown onto graphene nanoplatelets in aqueous suspensions. <i>RSC Advances</i> , 2016 , 6, 83217-83225	3.7	12
95	High surface area graphene foams by chemical vapor deposition. <i>2D Materials</i> , 2016 , 3, 045013	5.9	42
94	Biological application of Compressed Sensing Tomography in the Scanning Electron Microscope. <i>Scientific Reports</i> , 2016 , 6, 33354	4.9	6
93	Engineering interfacial structure in Giant PbS/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016 , 30, 531-541	17.1	70
92	Light-enhanced liquid-phase exfoliation and current photoswitching in graphene-azobenzene composites. <i>Nature Communications</i> , 2016 , 7, 11090	17.4	85
91	Liquid-Phase Exfoliation of Graphite into Single- and Few-Layer Graphene with π -Functionalized Alkanes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2714-21	6.4	64
90	Gas-phase synthesis of Mg-Ti nanoparticles for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 141-8	3.6	26
89	Dual emission in asymmetric "giant" PbS/CdS/CdS core/shell/shell quantum dots. <i>Nanoscale</i> , 2016 , 8, 4217-26	7.7	48
88	Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. <i>Nanoscale</i> , 2016 , 8, 6739-53	7.7	22

87	Graphene-based coatings on polymer films for gas barrier applications. <i>Carbon</i> , 2016 , 96, 503-512	10.4	61
86	Tracking graphene by fluorescence imaging: a tool for detecting multiple populations of graphene in solution. <i>Nanoscale</i> , 2016 , 8, 8505-11	7.7	4
85	Large area fabrication of self-standing nanoporous graphene-on-PMMA substrate. <i>Materials Letters</i> , 2016 , 184, 47-51	3.3	10
84	Enhanced reduction in threading dislocation density in Ge grown on porous silicon during annealing due to porous buffer reconstruction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 96-101	1.6	0
83	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	21.8	137
82	Reductive dismantling and functionalization of carbon nanohorns. <i>Chemical Communications</i> , 2015 , 51, 5017-9	5.8	14
81	Graphene as transparent conducting layer for high temperature thin film device applications. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 138, 35-40	6.4	15
80	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). <i>Small</i> , 2015 , 11, 1736-1736	11	1
79	Enhancement of electrical and thermal conductivity of Su-8 photocrosslinked coatings containing graphene. <i>Progress in Organic Coatings</i> , 2015 , 86, 143-146	4.8	21
78	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, 1691-702	11	76
77	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	10.4	33
76	Graphene as transparent front contact for dye sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 135, 99-105	6.4	31
75	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
74	STEM electron tomography in the Scanning Electron Microscope. <i>Journal of Physics: Conference Series</i> , 2015 , 644, 012012	0.3	1
73	Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. <i>Chemistry of Materials</i> , 2015 , 27, 4390-4397	9.6	22
72	Graphene-lipids interaction: Towards the fabrication of a novel sensor for biomedical uses 2015 ,		1
71	Uniform Functionalization of High-Quality Graphene with Platinum Nanoparticles for Electrocatalytic Water Reduction. <i>ChemistryOpen</i> , 2015 , 4, 268-73	2.3	9
70	Enhanced Performance of Graphene/Epoxy Flexible Capacitors by Means of Ceramic Fillers. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 707-713	2.6	8

69	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	52
68	Graphene-epoxy flexible transparent capacitor obtained by graphene-polymer transfer and UV-induced bonding. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 355-9	4.8	12
67	Tailoring of quantum dot emission efficiency by localized surface plasmon polaritons in self-organized mesoscopic rings. <i>Nanoscale</i> , 2014 , 6, 741-4	7.7	13
66	Taguchi optimized synthesis of graphene films by copper catalyzed ethanol decomposition. <i>Diamond and Related Materials</i> , 2014 , 41, 73-78	3.5	26
65	Rapid and highly efficient growth of graphene on copper by chemical vapor deposition of ethanol. <i>Thin Solid Films</i> , 2014 , 571, 139-144	2.2	29
64	ITO-Free Organic Light-Emitting Transistors with Graphene Gate Electrode. <i>ACS Photonics</i> , 2014 , 1, 1082-1088	10.8	18
63	Fragmentation and exfoliation of 2-dimensional materials: a statistical approach. <i>Nanoscale</i> , 2014 , 6, 5926-33	7.7	86
62	Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2877-2886	7.1	31
61	Photoactive Dendrimer for Water Photoreduction: A Scaffold to Combine Sensitizers and Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 798-803	6.4	19
60	Folds and buckles at the nanoscale: experimental and theoretical investigation of the bending properties of graphene membranes. <i>Topics in Current Chemistry</i> , 2014 , 348, 205-36		
59	Improvement of Dye Solar Cell Efficiency by Photoanode Posttreatment. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-10	2.1	4
58	Ge growth on porous silicon: The effect of buffer porosity on the epilayer crystalline quality. <i>Applied Physics Letters</i> , 2014 , 105, 122104	3.4	9
57	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	3.8	52
56	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> , 2013 , 23, 4756-4756	15.6	160
55	Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. <i>Nanoscale</i> , 2013 , 5, 4205-16	7.7	109
54	The Exfoliation of Graphene in Liquids by Electrochemical, Chemical, and Sonication-Assisted Techniques: A Nanoscale Study. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	39
53	Regenerable resistive switching in silicon oxide based nanojunctions. <i>Advanced Materials</i> , 2012 , 24, 11972-11974	24.01	42
52	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		27

51	Time and Temperature Dependence of CdS Nanoparticles Grown in a Polystyrene Matrix. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-11	3.2	21
50	Self-assembly and electrical properties of a novel heptameric thiophene-benzothiadiazole based architectures. <i>Chemical Communications</i> , 2012 , 48, 12162-4	5.8	14
49	Solutions of fully exfoliated individual graphene flakes in low boiling point solvents. <i>Soft Matter</i> , 2012 , 8, 7882	3.6	42
48	Folded graphene membranes: mapping curvature at the nanoscale. <i>Nano Letters</i> , 2012 , 12, 5207-12	11.5	50
47	Gold nanoparticles uptake and cytotoxicity assessed on rat liver precision-cut slices. <i>Toxicological Sciences</i> , 2012 , 128, 186-97	4.4	32
46	Transmission Electron Microscopy Study of Graphene Solutions. <i>Carbon Nanostructures</i> , 2012 , 157-163	0.6	2
45	Graphene solutions. <i>Chemical Communications</i> , 2011 , 47, 5470-2	5.8	73
44	CdSe spherical quantum dots stabilised by thiomalic acid: biphasic wet synthesis and characterisation. <i>ChemPhysChem</i> , 2011 , 12, 863-70	3.2	9
43	Surface electrostatic potentials in carbon nanotubes and graphene membranes investigated with electron holography. <i>Carbon</i> , 2011 , 49, 1423-1429	10.4	13
42	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	5.1	57
41	Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011 , 153, 340-346	8.5	49
40	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9052		74
39	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	1.8	10
38	Micron-sized [6,6]-phenyl C61 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, 4473-80	3.6	31
37	Additive nanoscale embedding of functional nanoparticles on silicon surface. <i>Nanoscale</i> , 2010 , 2, 2069-77	7.7	25
36	One pot synthesis of bi-linker stabilised CdSe quantum dots. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012067	0.3	2
35	Catalytic combustion of toluene over cluster-derived gold/iron catalysts. <i>Applied Catalysis A: General</i> , 2010 , 372, 138-146	5.1	49
34	Chirality dependent surface adhesion of single-walled carbon nanotubes on graphene surfaces. <i>Carbon</i> , 2010 , 48, 3050-3056	10.4	16

- 33 Conductive sub-micrometric wires of platinum-carbonyl clusters fabricated by soft-lithography. *Journal of the American Chemical Society*, **2008**, 130, 1177-82 16.4 66
- 32 Quantitative determination of the dopant distribution in Si ultrashallow junctions by tilted sample annular dark field scanning transmission electron microscopy. *Applied Physics Letters*, **2008**, 92, 261907 3.4 15
- 31 On the Spatial Resolution and Nanoscale Features Visibility in Scanning Electron Microscopy and Low-Energy Scanning Transmission Electron Microscopy **2008**, 521-522
- 30 An improved detection system for low energy Scanning Transmission Electron Microscopy **2008**, 581-582
- 29 Size Effect in Gold Nanoparticles Investigated by Electron Holography and STEM **2008**, 247-248
- 28 A computational study on nanocrystalline SnO₂: Adsorption of CO and O₂ onto defective nanograins. *Applied Surface Science*, **2007**, 253, 4010-4015 6.7 2
- 27 SnO₂ nanograins Au-doped: A quantum mechanical evaluation of CO adsorption. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 37, 287-291 3 1
- 26 Electrical and holographic characterization of gold catalyzed titania-based layers. *Journal of the European Ceramic Society*, **2007**, 27, 4131-4134 6 4
- 25 Nano-graphene growth and texturing by Nd:YAG pulsed laser ablation of graphite on Silicon. *Journal of Physics: Conference Series*, **2007**, 59, 616-624 0.3 12
- 24 Scanning electron microscopy of thinned specimens: From multilayers to biological samples. *Applied Physics Letters*, **2007**, 90, 163113 3.4 16
- 23 Si Ultra Shallow Junctions Dopant Profiling with ADF-STEM. *Materials Research Society Symposia Proceedings*, **2007**, 1026, 1 1
- 22 CO adsorption onto tin oxide clusters: DFT calculations. *Computational Materials Science*, **2007**, 38, 814-823 3.2 4
- 21 The electronic configuration and the conductance of silicon nanograins: An application of the scattering approach. *Computational Materials Science*, **2007**, 38, 830-837 3.2 1
- 20 Synthesis of small gold nanoparticles: Au(I) disproportionation catalyzed by a persulfurated coronene dendrimer. *Chemical Communications*, **2007**, 4167-9 5.8 25
- 19 Contrast and resolution versus specimen thickness in low energy scanning transmission electron microscopy. *Journal of Applied Physics*, **2007**, 101, 114917 2.5 24
- 18 Dopant regions imaging in scanning electron microscopy. *Journal of Applied Physics*, **2006**, 99, 043512 2.5 8
- 17 Solution of the time-dependent, multi-particle Schrödinger equation using Monte Carlo and numerical integration. *Computational Materials Science*, **2006**, 38, 231-239 3.2 2
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