# Manuela A Scarselli

List of Publications by Year
in descending order

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|---|---|---|---|
| 107 papers | 2,238 citations | 201674 27 h-index | 265206 42 g-index |
| 107 all docs | 107 docs citations | 107 times ranked | 3188 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Experimental imaging of silicon nanotubes. Applied Physics Letters, 2005, 86, 231901. | 3.3 | 128 |
| 2 | A three-dimensional carbon nanotube network for water treatment. Nanotechnology, 2014, 25, 065701. | 2.6 | 125 |
| 3 | Electronic and optoelectronic nano-devices based on carbon nanotubes. Journal of Physics Condensed Matter, 2012, 24, 313202. | 1.8 | 87 |
| 4 | Silicon nanotubes: Synthesis and characterization. Thin Solid Films, 2006, 508, 226-230. | 1.8 | 86 |
| 5 | Formation of Silicene Nanosheets on Graphite. ACS Nano, 2016, 10, 11163-11171. | 14.6 | 84 |
| 6 | 3D meshes of carbon nanotubes guide functional reconnection of segregated spinal explants. Science Advances, 2016, 2, e1600087. | 10.3 | 84 |
| 7 | The synthesis and characterization of carbon nanotubes grown by chemical vapor deposition using a stainless steel catalyst. Carbon, 2011, 49, 3307-3315. | 10.3 | 77 |
| 8 | Super-hydrophobic multi-walled carbon nanotube coatings for stainless steel. Nanotechnology, 2015, 26, 145701. | 2.6 | 58 |
| 9 | A new green methodology for surface modification of diatomite filler in elastomers. Materials Chemistry and Physics, 2017, 194, 253-260. | 4.0 | 54 |
| 10 | Multi-Fractal Hierarchy of Single-Walled Carbon Nanotube Hydrophobic Coatings. Scientific Reports, 2015, 5, 8583. | 3.3 | 53 |
| 11 | Light harvesting with multiwall carbon nanotube/silicon heterojunctions. Nanotechnology, 2011, 22, 115701. | 2.6 | 47 |
| 12 | Large photocurrent generation in multiwall carbon nanotubes. Applied Physics Letters, 2006, 89, 253107. | 3.3 | 46 |
| 13 | Regioregular poly(3-hexyl-thiophene) helical self-organization on carbon nanotubes. Applied Physics Letters, 2009, 95, 013304. | 3.3 | 45 |
| 14 | Langmuirâ”Blodgett Films of a Manganese Corrole Derivative. Langmuir, 1999, 15, 1268-1274. | 3.5 | 42 |
| 15 | In situ formation of noble metal nanoparticles on multiwalled carbon nanotubes and its implication in metalâ€“nanotube interactions. Carbon, 2012, 50, 875-884. | 10.3 | 40 |
| 16 | Record efficiency of air-stable multi-walled carbon nanotube/silicon solar cells. Carbon, 2016, 101, 226-234. | 10.3 | 39 |
| 17 | Coating ZnO nanoparticle films with DNA nanolayers for enhancing the electron extracting properties and performance of polymer solar cells. Nanoscale, 2017, 9, 19031-19038. | 5.6 | 39 |
| 18 | Effect of coiling on the electronic properties along single-wall carbon nanotubes. Applied Physics Letters, 2004, 85, 3857-3859. | 3.3 | 38 |

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|---|---|---|---|
| 19 | Solar Cells Incorporating Water/Alcohol-Soluble Electron-Extracting DNA Nanolayers. ACS Energy Letters, 2016, 1, 510-515. | 17.4 | 36 |
| 20 | Carbon nanotube semitransparent electrodes for amorphous silicon based photovoltaic devices. Applied Physics Letters, 2011, 98, . | 3.3 | 34 |
| 21 | Microscopic and Spectroscopic Investigation of Poly(3-hexylthiophene) Interaction with Carbon Nanotubes. Polymers, 2011, 3, 1433-1446. | 4.5 | 32 |
| 22 | Multiwall Carbon Nanotubes Decorated with Copper Nanoparticles: Effect on the Photocurrent Response. Journal of Physical Chemistry C, 2009, 113, 5860-5864. | 3.1 | 31 |
| 23 | Dye-doped zirconia-based Ormosil planar waveguides: optical properties and surface morphology. Journal of Non-Crystalline Solids, 1999, 255, 193-198. | 3.1 | 30 |
| 24 | Playing with Peptides: How to Build a Supramolecular Peptide Nanostructure by Exploiting HelixÂ·Â·Â·Helix Macrodipole Interactions. Langmuir, 2012, 28, 2817-2826. | 3.5 | 30 |
| 25 | XPS and STM study of SiC synthesized by acetylene and disilane reaction with the Si(100)2Ã—1 surface. Surface Science, 2005, 582, 125-136. | 1.9 | 28 |
| 26 | Growth of ultrahigh-density quantum-confined germanium dots on SiO2 thin films. Applied Physics Letters, 2006, 89, 063122. | 3.3 | 28 |
| 27 | Densely-packed self-assembled monolayers on gold surfaces from a conformationally constrained helical hexapeptide. Surface Science, 2006, 600, 409-416. | 1.9 | 27 |
| 28 | Preparation and characterization of tungsten tips for scanning tunneling microscopy. Review of Scientific Instruments, 1994, 65, 1558-1560. | 1.3 | 26 |
| 29 | Direct Evidence of Chemically Inhomogeneous, Nanostructured, Siâ€“O Buried Interfaces and Their Effect on the Efficiency of Carbon Nanotube/Si Photovoltaic Heterojunctions. Journal of Physical Chemistry C, 2013, 117, 18688-18696. | 3.1 | 26 |
| 30 | STM study of acetylene reaction with Si(111): observation of a carbon-induced Si(111)âˆš3Ã—âˆš3R30Â° reconstruction. Surface Science, 2003, 531, L329-L334. | 1.9 | 25 |
| 31 | Photocurrent generation in random networks of multiwall-carbon-nanotubes grown by an â€œall-laserâ€•process. Applied Physics Letters, 2009, 95, . | 3.3 | 24 |
| 32 | Optoelectronic properties in quantum-confined germanium dots. Applied Physics Letters, 2007, 91, 141117. | 3.3 | 23 |
| 33 | Poly(3-hexyl-thiophene) coil-wrapped single wall carbon nanotube investigated by scanning tunneling spectroscopy. Applied Physics Letters, 2009, 95, 143116. | 3.3 | 23 |
| 34 | Functional rewiring across spinal injuries via biomimetic nanofiber scaffolds. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25212-25218. | 7.1 | 23 |
| 35 | Electronic correlations in graphite and carbon nanotubes from Auger spectroscopy. Physical Review B, 2007, 76, . | 3.2 | 21 |
| 36 | Silicon spectral response extension through single wall carbon nanotubes in hybrid solar cells. Journal of Materials Chemistry C, 2013, 1, 6752. | 5.5 | 21 |

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| 37 | Raman investigation of air-stable silicene nanosheets on an inert graphite surface. Nano Research, 2018, 11, 5879-5889. | 10.4 | 21 |
| 38 | Controlling the thickness of carbon nanotube random network films by the estimation of the absorption coefficient. Carbon, 2015, 95, 28-33. | 10.3 | 20 |
| 39 | Controlling the quantum dot nucleation site. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 77-88. | 3.5 | 19 |
| 40 | Probing the electronic structure of carbon nanotubes by nanoscale spectroscopy. Nanoscale, 2010, 2, 1611. | 5.6 | 19 |
| 41 | High coercivity of iron-filled carbon nanotubes synthesized on austenitic stainless steel. Carbon, 2012, 50, 718-721. | 10.3 | 19 |
| 42 | Applications of three-dimensional carbon nanotube networks. Beilstein Journal of Nanotechnology, 2015, 6, 792-798. | 2.8 | 19 |
| 43 | Evidence of Multiwall Carbon Nanotube Deformation Caused by Poly(3-hexylthiophene) Adhesion. Journal of Physical Chemistry C, 2011, 115, 6324-6330. | 3.1 | 18 |
| 44 | Carbon induced restructuring of the Si(111) surface. Physical Review B, 2004, 69, . | 3.2 | 17 |
| 45 | Enhanced photocurrent generation from UV-laser-synthesized-single-wall-carbon-nanotubes/n-silicon hybrid planar devices. Applied Physics Letters, 2010, 97, 193105. | 3.3 | 17 |
| 46 | Static and dynamic features of a helical hexapeptide chemisorbed on a gold surface. Materials Science and Engineering C, 2006, 26, 918-923. | 7.3 | 16 |
| 47 | Influence of Cu nanoparticle size on the photo-electrochemical response from Cuâ€“multiwall carbon nanotube composites. Nanotechnology, 2011, 22, 035701. | 2.6 | 16 |
| 48 | Pressure-dependent electrical conductivity of freestanding three-dimensional carbon nanotube network. Applied Physics Letters, 2013, 102, . | 3.3 | 16 |
| 49 | Packing-induced electronic structure changes in bundled single-wall carbon nanotubes. Applied Physics Letters, 2005, 87, 103106. | 3.3 | 15 |
| 50 | A combined scanning tunneling microscopy and reflectance anisotropy spectroscopy investigation of tetraphenylporphyrin deposited on graphite. Surface Science, 2007, 601, 2607-2610. | 1.9 | 15 |
| 51 | Innovative carbon nanotube-silicon large area photodetector. Journal of Instrumentation, 2012, 7, P08013-P08013. | 1.2 | 15 |
| 52 | Peptide flatlandia: a new-concept peptide for positioning of electroactive probes in proximity to a metal surface. Nanoscale, 2015, 7, 15495-15506. | 5.6 | 15 |
| 53 | MoO3 films grown on polycrystalline Cu: Morphological, structural, and electronic properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, . | 2.1 | 15 |
| 54 | Studies of the adsorption of tetraphenylporphyrin molecules on graphite. Surface Science, 2007, 601, 5526-5532. | 1.9 | 14 |

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| 55 | Scanning tunneling microscopy and Raman evidence of silicene nanosheets intercalated into graphite surfaces at room temperature. Nanoscale, 2019, 11, 6145-6152. | 5.6 | 14 |
| 56 | Morphological, chemical and electrical characterization of thin film grown on rough and mechanically polished substrates. Journal Physics D: Applied Physics, 1996, 29, 2235-2239. | 2.8 | 13 |
| 57 | Photoresponse from noble metal nanoparticles-multi walled carbon nanotube composites. Applied Physics Letters, 2012, 101, . | 3.3 | 13 |
| 58 | Si nanotubes and nanospheres with two-dimensional polycrystalline walls. Nanoscale, 2012, 4, 5195. | 5.6 | 13 |
| 59 | Electrical analysis of carbon nanostructures/silicon heterojunctions designed for radiation detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 377-381. | 1.6 | 12 |
| 60 | Exploiting the hierarchical morphology of single-walled and multi-walled carbon nanotube films for highly hydrophobic coatings. Beilstein Journal of Nanotechnology, 2015, 6, 353-360. | 2.8 | 12 |
| 61 | Functionalization of Carbon Spheres with a Porphyrinâ^'Ferrocene Dyad. ChemPhysChem, 2018, 19, 2243-2249. | 2.1 | 12 |
| 62 | Photon harvesting with multi wall carbon nanotubes. Superlattices and Microstructures, 2009, 46, 340-346. | 3.1 | 11 |
| 63 | Selective Optical Switching of Interface-Coupled Relaxation Dynamics in Carbon Nanotubeâ€“Si Heterojunctions. Journal of Physical Chemistry C, 2014, 118, 24110-24116. | 3.1 | 10 |
| 64 | Comparison of the Local Order in Highly Oriented Pyrolitic Graphite and Bundles of Single-Wall Carbon Nanotubes by Nanoscale Extended Energy Loss Spectra. Journal of Physical Chemistry C, 2009, 113, 4848-4855. | 3.1 | 9 |
| 65 | High graphene permeability for room temperature silicon deposition: The role of defects. Carbon, 2020, 158, 631-641. | 10.3 | 9 |
| 66 | STM study of Si(1 1 1)7 Ã— 7 reconstructed surface carbonization induced by acetylene. Surface Science, 2004, 559, 223-232. | 1.9 | 8 |
| 67 | Photovoltaic Response of Carbon Nanotube-Silicon Heterojunctions: Effect of Nanotube Film Thickness and Number of Walls. Journal of Nanoscience and Nanotechnology, 2011, 11, 9202-9207. | 0.9 | 8 |
| 68 | Structural, electronic and photovoltaic characterization of multiwalled carbon nanotubes grown directly on stainless steel. Beilstein Journal of Nanotechnology, 2012, 3, 360-367. | 2.8 | 8 |
| 69 | Transport properties in aggregates of Nb nanowires templated by carbon nanotube films. Carbon, 2016, 105, 544-550. | 10.3 | 8 |
| 70 | Influence of Iron Catalyst in the Carbon Spheres Synthesis for Energy and Electrochemical Applications. Advanced Materials Interfaces, 2018, 5, 1800070. | 3.7 | 8 |
| 71 | Formation and ordering of Ge nanocrystals on SiO2 using FIB nanolithography. Materials Science in Semiconductor Processing, 2006, 9, 812-816. | 4.0 | 7 |
| 72 | Observation of a photoinduced, resonant tunneling effect in a carbon nanotubeâ€“silicon heterojunction. Beilstein Journal of Nanotechnology, 2015, 6, 704-710. | 2.8 | 7 |

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| 73 | Carbon nanotube sponges as tunable materials for electromagnetic applications. Nanotechnology, 2018, 29, 375202. | 2.6 | 7 |
| 74 | Magnetic carbon spheres and their derivatives combined with printed electrochemical sensors. Electrochimica Acta, 2018, 282, 247-254. | 5.2 | 7 |
| 75 | Anharmonicity in single-wall carbon nanotubes as evidenced by means of extended energy loss fine structure spectroscopy analysis. Physical Review B, 2007, 75, . | 3.2 | 6 |
| 76 | Ferromagnetic Mn-doped Si0.3Ge0.7nanodots self-assembled on Si(100). Journal of Physics Condensed Matter, 2012, 24, 142203. | 1.8 | 6 |
| 77 | Probing the structure of Fe nanoparticles in multiwall carbon nanotubes grown on a stainless steel substrate. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 6 |
| 78 | The potentially crucial role of quasi-particle interferences for the growth of silicene on graphite. Nano Research, 2020, 13, 2378-2383. | 10.4 | 6 |
| 79 | Visible and near ultraviolet photocurrent generation in carbon nanotubes. Surface Science, 2007, 601, 2810-2813. | 1.9 | 5 |
| 80 | Experimental and theoretical study of electronic correlations in carbon nanotubes and graphite from auger spectroscopy. Journal of Physics: Conference Series, 2008, 100, 052082. | 0.4 | 5 |
| 81 | Carbon nanotube synthesis from germanium nanoparticles on patterned substrates. Journal of Non-Crystalline Solids, 2010, 356, 1972-1975. | 3.1 | 5 |
| 82 | A bioinspired dye sensitized solar cell based on a rhodamine-functionalized peptide immobilized on nanocrystalline TiO 2. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 347, 227-234. | 3.9 | 5 |
| 83 | Mn/Pt(111) interface investigated at the first stages of formation via AES and STM. Surface Science, 2003, 545, L774-L778. | 1.9 | 3 |
| 84 | Magnetic properties of thin MnGe films investigated by magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1541-E1543. | 2.3 | 3 |
| 85 | Photoresponse induced by Ge nanodots on SiO2/Si substrate. Journal of Non-Crystalline Solids, 2010, 356, 1940-1942. | 3.1 | 3 |
| 86 | Progress in the realization of a silicon-CNT photodetector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 150-153. | 1.6 | 3 |
| 87 | Strain analysis of noble metal islands grown on multiwalled carbon nanotubes. Carbon, 2012, 50, 3616-3621. | 10.3 | 3 |
| 88 | Magnetic properties of rectangular permalloy prisms: a combined magnetic force microscopy and magneto-optic Kerr study. Surface Science, 2004, 566-568, 291-296. | 1.9 | 2 |
| 89 | Photocurrent generation from Ge nanodots in the near UV and visible region. Superlattices and Microstructures, 2008, 44, 331-336. | 3.1 | 2 |
| 90 | Progress on the development of a siliconâ€“carbon nanotube photodetector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 554-556. | 1.6 | 2 |

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| 91 | Development of new photon detection device for Cherenkov and fluorescence radiation. EPJ Web of Conferences, 2013, 53, 08014. | 0.3 | 2 |
| 92 | Silicene Nanostructures Grown on Graphene Covered SiC (0001) Substrate. International Journal of Nanoscience, 2019, 18, 1940039. | 0.7 | 2 |
| 93 | Si(111) and Si(100) surfaces observed in air by scanning tunneling microscopy. Applied Surface Science, 1992, 56-58, 34-38. | 6.1 | 1 |
| 94 | Tuning Photoresponse Through Size Control of Cu Nanoparticles Deposited on Multi Wall Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 9321-9325. | 0.9 | 1 |
| 95 | Photocurrent Generation in Ge Nanocrystal/Si Systems. Journal of Nanoscience and Nanotechnology, 2011, 11, 9227-9231. | 0.9 | 1 |
| 96 | Are Two Better Than One? A New Approach for Multidentate Grafting of Peptides to a Gold Substrate. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1351-1371. | 2.8 | 1 |
| 97 | Ultrafast dynamics in unaligned MWCNTs decorated with metal nanoparticles. Nanotechnology, 2016, 27, 235704. | 2.6 | 1 |
| 98 | Light induced tunnel effect in CNT-Si photodiode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 76-78. | 1.6 | 1 |
| 99 | RECENT RESULTS IN SILICON-CNT PHOTODETECTORS. Astroparticle, Particle, Space Physics, Radiation Interaction, Detectors and Medical Physics Applications, 2012, , 822-828. | 0.1 | 1 |
| 100 | Early stages of nucleation and growth of diamond film by AES, SEM, UPS and optical reflectivity techniques: Surface composition. Physica B: Condensed Matter, 1993, 185, 94-98. | 2.7 | 0 |
| 101 | Gap-modulated versus constant current mode as a tool to discriminate between DNA and substrate structure in scanning tunneling microscopy. , 1993, , . | | 0 |
| 102 | Effect of the silicon surface step on the acetylene reaction with the Si(111)7Ã—7 reconstructed surface. Surface Science, 2004, 566-568, 155-159. | 1.9 | 0 |
| 103 | Towards controlled growth of carbon nanotubes from germanium on nanoindented silicon substrates. , 2010, , . | | 0 |
| 104 | Tunable electromagnetic response of free-standing 3D carbon nanotube network in the Ka-band. , 2017, , . | | 0 |
| 105 | (Invited) 3D Multifunctional Carbon Nanotube Networks. ECS Transactions, 2018, 86, 85-96. | 0.5 | 0 |
| 106 | HIGH FREQUENCY KELVIN PROBE INSTRUMENTATION. , 2002, , . | | 0 |
| 107 | (Invited) 3D Multifunctional Carbon Nanotube Networks. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |