

Giuseppe Nicotra

List of Publications by Year in descending order

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147
papers

3,670
citations

117453

34
h-index

189595

50
g-index

149
all docs

149
docs citations

149
times ranked

5470
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Site-specific halloysite functionalization by polydopamine: A new synthetic route for potential near infrared-activated delivery system. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1779-1791. | 5.0 | 14 |
| 2 | Crystallization and Electrical Properties of Ge-Rich GeSbTe Alloys. <i>Nanomaterials</i> , 2022, 12, 631. | 1.9 | 12 |
| 3 | Low-temperature atomic layer deposition of TiO ₂ activated by laser annealing: Applications in photocatalysis. <i>Applied Surface Science</i> , 2022, 596, 153641. | 3.1 | 4 |
| 4 | Indium Nitride at the 2D Limit. <i>Advanced Materials</i> , 2021, 33, e2006660. | 11.1 | 45 |
| 5 | Gallium chiral nanoshaping for circular polarization handling. <i>Materials Horizons</i> , 2021, 8, 187-196. | 6.4 | 9 |
| 6 | Modification of the van der Waals interaction at the $\text{Bi}_2\text{Te}_3/\text{Ge}(111)$ interface. <i>Physical Review Materials</i> , 2021, 5, . | 2.9 | 11 |
| 7 | Carbon Quantum Dots as Fluorescence Nanochemosensors for Selective Detection of Amino Acids. <i>ACS Applied Nano Materials</i> , 2021, 4, 6250-6256. | 2.4 | 28 |
| 8 | Material proposal for 2D indium oxide. <i>Applied Surface Science</i> , 2021, 548, 149275. | 3.1 | 50 |
| 9 | MOCVD Growth of GeTe/Sb ₂ Te ₃ Core-Shell Nanowires. <i>Coatings</i> , 2021, 11, 718. | 1.2 | 6 |
| 10 | Interlayer Coordination of Pd Units in Exfoliated Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2021, 143, 10088-10098. | 6.6 | 16 |
| 11 | Nanoscale structural and electrical properties of graphene grown on AlGa _N by catalyst-free chemical vapor deposition. <i>Nanotechnology</i> , 2021, 32, 015705. | 1.3 | 6 |
| 12 | Phase Change Ge-Rich GeSbTe/Sb ₂ Te ₃ Core-Shell Nanowires by Metal Organic Chemical Vapor Deposition. <i>Nanomaterials</i> , 2021, 11, 3358. | 1.9 | 5 |
| 13 | Preferential removal of pesticides from water by molecular imprinting on TiO ₂ photocatalysts. <i>Chemical Engineering Journal</i> , 2020, 379, 122309. | 6.6 | 124 |
| 14 | Chemical and biological evaluation of cross-linked halloysite-curcumin derivatives. <i>Applied Clay Science</i> , 2020, 184, 105400. | 2.6 | 19 |
| 15 | Nanoscale phenomena ruling deposition and intercalation of AlN at the graphene/SiC interface. <i>Nanoscale</i> , 2020, 12, 19470-19476. | 2.8 | 54 |
| 16 | Functionalized Carbon Nanoparticle-Based Sensors for Chemical Warfare Agents. <i>ACS Applied Nano Materials</i> , 2020, 3, 8182-8191. | 2.4 | 40 |
| 17 | Self-Formed, Conducting LaAlO ₃ /SrTiO ₃ Micro-Membranes. <i>Advanced Functional Materials</i> , 2020, 30, 1909964. | 7.8 | 17 |
| 18 | Covalently Conjugated Gold-Porphyrin Nanostructures. <i>Nanomaterials</i> , 2020, 10, 1644. | 1.9 | 14 |

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|----|---|-----|-----------|
| 19 | Sustainable Liquid-Phase Exfoliation of Layered Materials with Nontoxic Polarclean Solvent. ACS Sustainable Chemistry and Engineering, 2020, 8, 18830-18840. | 3.2 | 36 |
| 20 | Ag/ZnO/PMMA Nanocomposites for Efficient Water Reuse. ACS Applied Bio Materials, 2020, 3, 4417-4426. | 2.3 | 33 |
| 21 | One-pot synthesis of ZnO nanoparticles supported on halloysite nanotubes for catalytic applications. Applied Clay Science, 2020, 189, 105527. | 2.6 | 61 |
| 22 | Black Phosphorus/Palladium Nanohybrid: Unraveling the Nature of Pd Interaction and Application in Selective Hydrogenation. Chemistry of Materials, 2019, 31, 5075-5080. | 3.2 | 43 |
| 23 | Fast and Efficient Sun Light Photocatalytic Activity of Au-ZnO Core-Shell Nanoparticles Prepared by a One-Pot Synthesis. ACS Omega, 2019, 4, 15061-15066. | 1.6 | 28 |
| 24 | Mechanical milling: a sustainable route to induce structural transformations in MoS ₂ for applications in the treatment of contaminated water. Scientific Reports, 2019, 9, 974. | 1.6 | 26 |
| 25 | Halloysite nanotubes-carbon dots hybrids multifunctional nanocarrier with positive cell target ability as a potential non-viral vector for oral gene therapy. Journal of Colloid and Interface Science, 2019, 552, 236-246. | 5.0 | 47 |
| 26 | Covalently functionalized carbon nanoparticles with a chiral Mn-Salen: a new nanocatalyst for enantioselective epoxidation of alkenes. Chemical Communications, 2019, 55, 5255-5258. | 2.2 | 29 |
| 27 | Templated dewetting of single-crystal sub-millimeter-long nanowires and on-chip silicon circuits. Nature Communications, 2019, 10, 5632. | 5.8 | 33 |
| 28 | Control of Electron-State Coupling in Asymmetric Ge/Si Quantum Wells. Physical Review Applied, 2019, 11, . | 1.5 | 25 |
| 29 | Temperature-dependent Fowler-Nordheim electron barrier height in SiO ₂ /4H-SiC MOS capacitors. Materials Science in Semiconductor Processing, 2018, 78, 38-42. | 1.9 | 27 |
| 30 | Low-cost synthesis of pure ZnO nanowalls showing three-fold symmetry. Nanotechnology, 2018, 29, 135707. | 1.3 | 11 |
| 31 | Polymeric platform for the growth of chemically anchored ZnO nanostructures by ALD. RSC Advances, 2018, 8, 521-530. | 1.7 | 7 |
| 32 | Electronic band structures of undoped and P-doped Si nanocrystals embedded in SiO ₂ . Journal of Materials Chemistry C, 2018, 6, 119-126. | 2.7 | 8 |
| 33 | Anisotropic ultraviolet-plasmon dispersion in black phosphorus. Nanoscale, 2018, 10, 21918-21927. | 2.8 | 18 |
| 34 | One Pot Synthesis of Au-ZnO Core-Shell Nanoparticles Using a Zn Complex Acting as ZnO Precursor, Capping and Reducing Agent During the Formation of Au NPs. European Journal of Inorganic Chemistry, 2018, 2018, 4659-4659. | 1.0 | 2 |
| 35 | ZnO-pHEMA Nanocomposites: An Ecofriendly and Reusable Material for Water Remediation. ACS Applied Materials & Interfaces, 2018, 10, 40100-40110. | 4.0 | 47 |
| 36 | L10-FeNi films on Au-Cu-Ni buffer-layer: a high-throughput combinatorial study. Scientific Reports, 2018, 8, 15919. | 1.6 | 13 |

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|----|---|------|-----------|
| 37 | One Pot Synthesis of Au-ZnO Core-Shell Nanoparticles Using a Zn Complex Acting as ZnO Precursor, Capping and Reducing Agent During the Formation of Au NPs. European Journal of Inorganic Chemistry, 2018, 2018, 4678-4683. | 1.0 | 11 |
| 38 | Selective synthesis of turbostratic polyhedral carbon nano-onions by arc discharge in water. Nanotechnology, 2018, 29, 325601. | 1.3 | 13 |
| 39 | Selective photodegradation of paracetamol by molecularly imprinted ZnO nanonuts. Applied Catalysis B: Environmental, 2018, 238, 509-517. | 10.8 | 84 |
| 40 | Nanoscale electrical mapping of two-dimensional materials by conductive atomic force microscopy for transistors applications. AIP Conference Proceedings, 2018, , . | 0.3 | 4 |
| 41 | Electron trapping at SiO ₂ /4H-SiC interface probed by transient capacitance measurements and atomic resolution chemical analysis. Nanotechnology, 2018, 29, 395702. | 1.3 | 22 |
| 42 | Tailoring Electromagnetic Hot Spots toward Visible Frequencies in Ultra-Narrow Gap Al ₂ O ₃ Bowtie Nanoantennas. ACS Photonics, 2018, 5, 3399-3407. | 3.2 | 20 |
| 43 | Photoluminescent hybrid nanomaterials from modified halloysite nanotubes. Journal of Materials Chemistry C, 2018, 6, 7377-7384. | 2.7 | 35 |
| 44 | Observation of the nucleation kinetics of Si quantum dots on SiO ₂ by EFTEM. , 2018, , 119-122. | | 0 |
| 45 | Novel synthesis of ZnO/PMMA nanocomposites for photocatalytic applications. Scientific Reports, 2017, 7, 40895. | 1.6 | 130 |
| 46 | Effects of VLS and VS mechanisms during shell growth in GaAs-AlGaAs core-shell nanowires investigated by transmission electron microscopy. Materials Science in Semiconductor Processing, 2017, 65, 108-112. | 1.9 | 7 |
| 47 | Ambipolar MoS ₂ Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 23164-23174. | 4.0 | 81 |
| 48 | Site-Selective Surface-Enhanced Raman Detection of Proteins. ACS Nano, 2017, 11, 918-926. | 7.3 | 85 |
| 49 | Decoration of exfoliated black phosphorus with nickel nanoparticles and its application in catalysis. Chemical Communications, 2017, 53, 10946-10949. | 2.2 | 55 |
| 50 | Towards a nanofabricated vacuum cold-emitting triode. , 2017, , . | | 1 |
| 51 | Optical and photocatalytic properties of TiO ₂ nanoplumes. Beilstein Journal of Nanotechnology, 2017, 8, 190-195. | 1.5 | 13 |
| 52 | The design of the local monitor and control system of SKA dishes. , 2016, , . | | 0 |
| 53 | Absorption edges of black phosphorus: A comparative analysis. Physica Status Solidi (B): Basic Research, 2016, 253, 2509-2514. | 0.7 | 24 |
| 54 | Modeling of phosphorus diffusion in silicon oxide and incorporation in silicon nanocrystals. Journal of Materials Chemistry C, 2016, 4, 3531-3539. | 2.7 | 10 |

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|----|---|------|-----------|
| 55 | Low temperature atomic layer deposition of ZnO: Applications in photocatalysis. Applied Catalysis B: Environmental, 2016, 196, 68-76. | 10.8 | 98 |
| 56 | Anisotropic extended misfit dislocations in overcritical SiGe films by local substrate patterning. Nanotechnology, 2016, 27, 425301. | 1.3 | 1 |
| 57 | Programmable Extreme Chirality in the Visible by Helix-Shaped Metamaterial Platform. Nano Letters, 2016, 16, 5823-5828. | 4.5 | 71 |
| 58 | A forest of SiO ₂ nanowires covered by a TiO ₂ thin film for an efficient photocatalytic water treatment. RSC Advances, 2016, 6, 91121-91126. | 1.7 | 13 |
| 59 | Tuning the thermoelectric properties of A-site deficient SrTiO ₃ ceramics by vacancies and carrier concentration. Physical Chemistry Chemical Physics, 2016, 18, 26475-26486. | 1.3 | 63 |
| 60 | Atomic layer deposition of ZnO/TiO ₂ multilayers: towards the understanding of Ti-doping in ZnO thin films. RSC Advances, 2016, 6, 88886-88895. | 1.7 | 16 |
| 61 | Nanoscale Study of the Tarnishing Process in Electron Beam Lithography-Fabricated Silver Nanoparticles for Plasmonic Applications. Journal of Physical Chemistry C, 2016, 120, 24314-24323. | 1.5 | 49 |
| 62 | Novel near-infrared emission from crystal defects in MoS ₂ multilayer flakes. Nature Communications, 2016, 7, 13044. | 5.8 | 60 |
| 63 | Engineering interfacial structure in α -Giant-PbS/CdS quantum dots for photoelectrochemical solar energy conversion. Nano Energy, 2016, 30, 531-541. | 8.2 | 88 |
| 64 | Dual emission in asymmetric α -giant-PbS/CdS/CdS core/shell/shell quantum dots. Nanoscale, 2016, 8, 4217-4226. | 2.8 | 54 |
| 65 | Rapid synthesis of photoactive hydrogenated TiO ₂ nanoplumes. Applied Catalysis B: Environmental, 2016, 183, 328-334. | 10.8 | 31 |
| 66 | STEM and EELS Investigation on Black Phosphorus at Atomic Resolution. Microscopy and Microanalysis, 2015, 21, 427-428. | 0.2 | 4 |
| 67 | Interface disorder probed at the atomic scale for graphene grown on the C face of SiC. Physical Review B, 2015, 91, . | 1.1 | 20 |
| 68 | Quasiparticle spectrum and plasmonic excitations in the topological insulator α -Sb ₂ Te ₃ . Physical Review B, 2015, 91, . | 1.2 | 16 |
| 69 | Structural characterization of MOVPE-grown GaAs/AlGaAs core-shell nanowires through transmission electron microscopy. , 2015, , . | | 0 |
| 70 | The role of the interface in germanium quantum dots: when not only size matters for quantum confinement effects. Nanoscale, 2015, 7, 11401-11408. | 2.8 | 17 |
| 71 | Effect of Pt Nanoparticles on the Photocatalytic Activity of ZnO Nanofibers. Nanoscale Research Letters, 2015, 10, 484. | 3.1 | 50 |
| 72 | Size dependent light absorption modulation and enhanced carrier transport in germanium quantum dots devices. Solar Energy Materials and Solar Cells, 2015, 135, 22-28. | 3.0 | 32 |

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|----|---|-----|-----------|
| 73 | Thermodynamic stability of high phosphorus concentration in silicon nanostructures. <i>Nanoscale</i> , 2015, 7, 14469-14475. | 2.8 | 33 |
| 74 | UV-black rutile TiO ₂ : An antireflective photocatalytic nanostructure. <i>Journal of Applied Physics</i> , 2015, 117, 074903. | 1.1 | 22 |
| 75 | Delayed plastic relaxation limit in SiGe islands grown by Ge diffusion from a local source. <i>Journal of Applied Physics</i> , 2015, 117, 104309. | 1.1 | 1 |
| 76 | Manipulating surface diffusion and elastic interactions to obtain quantum dot multilayer arrangements over different length scales. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5 | 12 |
| 77 | Fe ion-implanted TiO ₂ thin film for efficient visible-light photocatalysis. <i>Journal of Applied Physics</i> , 2014, 116, . | 1.1 | 35 |
| 78 | Monitoring the kinetic evolution of self-assembled SiGe islands grown by Ge surface thermal diffusion from a local source. <i>Nanotechnology</i> , 2014, 25, 135606. | 1.3 | 4 |
| 79 | Atomic Scale Imaging and Energy Loss Spectroscopy of Epitaxial Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1714, 1. | 0.1 | 0 |
| 80 | Electronic properties of epitaxial graphene residing on SiC facets probed by conductive atomic force microscopy. <i>Applied Surface Science</i> , 2014, 291, 53-57. | 3.1 | 12 |
| 81 | Light harvesting with Ge quantum dots embedded in SiO ₂ or Si ₃ N ₄ . <i>Journal of Applied Physics</i> , 2014, 115, . | 1.1 | 27 |
| 82 | Atomic scale Monte Carlo simulations of BF ₃ plasma immersion ion implantation in Si. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 109-112. | 0.8 | 2 |
| 83 | TiO ₂ -coated nanostructures for dye photo-degradation in water. <i>Nanoscale Research Letters</i> , 2014, 9, 458. | 3.1 | 55 |
| 84 | An enhanced photocatalytic response of nanometric TiO ₂ wrapping of Au nanoparticles for eco-friendly water applications. <i>Nanoscale</i> , 2014, 6, 11189-11195. | 2.8 | 58 |
| 85 | High resolution study of structural and electronic properties of epitaxial graphene grown on off-axis 4H-SiC (0001). <i>Journal of Crystal Growth</i> , 2014, 393, 150-155. | 0.7 | 11 |
| 86 | Quantification of phosphorus diffusion and incorporation in silicon nanocrystals embedded in silicon oxide. <i>Surface and Interface Analysis</i> , 2014, 46, 393-396. | 0.8 | 26 |
| 87 | Observation of layer by layer graphitization of 4H-SiC, through atomic-EELS at low energy. <i>Microscopy and Microanalysis</i> , 2014, 20, 560-561. | 0.2 | 0 |
| 88 | Direct growth of quasi-free-standing epitaxial graphene on nonpolar SiC surfaces. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 43 |
| 89 | Room-temperature efficient light detection by amorphous Ge quantum wells. <i>Nanoscale Research Letters</i> , 2013, 8, 128. | 3.1 | 28 |
| 90 | Role of Ge nanoclusters in the performance of photodetectors compatible with Si technology. <i>Thin Solid Films</i> , 2013, 548, 551-555. | 0.8 | 11 |

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|-----|--|-----|-----------|
| 91 | Properties of mixed phase n-doped silicon oxide layers and application in micromorph solar cells. Solar Energy Materials and Solar Cells, 2013, 119, 67-72. | 3.0 | 27 |
| 92 | Light absorption enhancement in closely packed Ge quantum dots. Applied Physics Letters, 2013, 102, . | 1.5 | 15 |
| 93 | Delaminated Graphene at Silicon Carbide Facets: Atomic Scale Imaging and Spectroscopy. ACS Nano, 2013, 7, 3045-3052. | 7.3 | 73 |
| 94 | Strain-induced generation of silicon nanopillars. Nanotechnology, 2013, 24, 335302. | 1.3 | 8 |
| 95 | Onset of plastic relaxation in the growth of Ge on Si(001) at low temperatures: Atomic-scale microscopy and dislocation modeling. Physical Review B, 2013, 88, . | 1.1 | 13 |
| 96 | Narrow intersubband transitions in n-type Ge/SiGe multi-quantum wells: control of the terahertz absorption energy trough the temperature dependent depolarization shift. Nanotechnology, 2012, 23, 465708. | 1.3 | 25 |
| 97 | On-chip fabrication of ultrasensitive NO ₂ sensors based on silicon nanowires. Applied Physics Letters, 2012, 101, 103101. | 1.5 | 26 |
| 98 | Homogeneity of Ge-rich nanostructures as characterized by chemical etching and transmission electron microscopy. Nanotechnology, 2012, 23, 045302. | 1.3 | 11 |
| 99 | A new route for fabrication of silicon QDs in a dielectric matrix of silica and silicate. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1900-1903. | 0.8 | 2 |
| 100 | Matrix role in Ge nanoclusters embedded in Si ₃ N ₄ or SiO ₂ . Applied Physics Letters, 2012, 101, . | 1.5 | 35 |
| 101 | From Atomistic to Device Level Investigation of Hybrid Redox Molecular/Silicon Field-Effect Memory Devices. IEEE Nanotechnology Magazine, 2011, 10, 275-283. | 1.1 | 11 |
| 102 | Low-temperature growth of In-assisted silicon nanowires. Journal of Crystal Growth, 2011, 335, 10-16. | 0.7 | 17 |
| 103 | The role of the surfaces in the photon absorption in Ge nanoclusters embedded in silica. Nanoscale Research Letters, 2011, 6, 135. | 3.1 | 52 |
| 104 | Analyses of the As doping of SiO ₂ /Si/SiO ₂ nanostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 863-866. | 0.8 | 0 |
| 105 | Enhanced gain coefficient in Raman amplifier based on silicon nanocomposites. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 1-7. | 1.0 | 29 |
| 106 | Atomic structure of metal-free and catalyzed Si nanowires. Materials Research Society Symposia Proceedings, 2011, 1305, 1. | 0.1 | 2 |
| 107 | Structural properties of annealed SiO _x . Journal of Physics: Conference Series, 2010, 209, 012042. | 0.3 | 2 |
| 108 | Near- and far-infrared absorption and electronic structure of Ge-SiGe multiple quantum wells. Physical Review B, 2010, 82, . | 1.1 | 37 |

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| 109 | As doping of Si-based low-dimensional systems. Applied Physics Letters, 2010, 96, 093116. | 1.5 | 7 |
| 110 | Synthesis of crystalline Si quantum dots by millisecond laser irradiation of SiOxNy layers. Journal of Applied Physics, 2010, 107, 023703. | 1.1 | 9 |
| 111 | Strain relaxation in high Ge content SiGe layers deposited on Si. Journal of Applied Physics, 2010, 107, 063504. | 1.1 | 67 |
| 112 | First and second-order Raman scattering in Si nanostructures within silicon nitride. Applied Physics Letters, 2010, 97, . | 1.5 | 39 |
| 113 | Low-temperature, self-catalyzed growth of Si nanowires. Nanotechnology, 2010, 21, 255601. | 1.3 | 22 |
| 114 | Observation of stimulated Raman scattering in silicon nanocomposites. Applied Physics Letters, 2009, 94, 221106. | 1.5 | 27 |
| 115 | Amorphous to fcc-polycrystal transition in Ge2Sb2Te5 thin films studied by electrical measurements: Data analysis and comparison with direct microscopy observations. Journal of Applied Physics, 2009, 105, . | 1.1 | 15 |
| 116 | Crystallization of sputtered-deposited and ion implanted amorphous Ge2Sb2Te5 thin films. Journal of Applied Physics, 2009, 105, . | 1.1 | 27 |
| 117 | Evolution of the Transrotational Structure During Crystallization of Amorphous Ge2Sb2Te5 Thin Films. Materials Research Society Symposia Proceedings, 2009, 1160, 1. | 0.1 | 0 |
| 118 | Quantitative study of the Si/SiO2 phase separation in substoichiometric silicon oxide films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 159-160, 80-82. | 1.7 | 3 |
| 119 | Structural properties of Si nanocrystals: implications for light emitting devices fabrication. , 2008, , . | | 1 |
| 120 | Microstructural evolution of SiOx films and its effect on the luminescence of Si nanoclusters. Journal of Applied Physics, 2008, 104, 094306. | 1.1 | 38 |
| 121 | CONTRAPUNCTUS Project: A New Computer Solution for Braille Music Fruition. Lecture Notes in Computer Science, 2008, , 303-309. | 1.0 | 0 |
| 122 | Role of the internal strain on the incomplete Si ^δ •SiO2 phase separation in substoichiometric silicon oxide films. Applied Physics Letters, 2007, 90, 183101. | 1.5 | 22 |
| 123 | Evaluation of the excess and clustered silicon profiles in a silicon implanted SiO2 layer. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 104-107. | 0.6 | 2 |
| 124 | The influence of hydrogen and nitrogen on the formation of Si nanoclusters embedded in sub-stoichiometric silicon oxide layers. Microelectronics Reliability, 2007, 47, 777-780. | 0.9 | 3 |
| 125 | Quantitative electron energy loss spectroscopy of Si nanoclusters embedded in SiOx. Microelectronic Engineering, 2007, 84, 486-489. | 1.1 | 7 |
| 126 | New Model of Liver Regeneration Induced Through Use of Vascular Endothelial Growth Factor. Transplantation Proceedings, 2006, 38, 1193-1194. | 0.3 | 10 |

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| 127 | Effects of partial self-ordering of Si dots formed by chemical vapor deposition on the threshold voltage window distribution of Si nanocrystal memories. <i>Journal of Applied Physics</i> , 2006, 100, 086104. | 1.1 | 8 |
| 128 | Reduction of fixed charges in atomic layer deposited Al ₂ O ₃ dielectrics. <i>Microelectronic Engineering</i> , 2005, 80, 210-213. | 1.1 | 47 |
| 129 | Investigation of SiO ₂ /HfO ₂ gate stacks for application to non-volatile memory devices. <i>Solid-State Electronics</i> , 2005, 49, 1833-1840. | 0.8 | 31 |
| 130 | Partial self-ordering observed in silicon nanoclusters deposited on silicon oxide substrates by chemical vapor deposition. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 17 |
| 131 | Quantitative determination of the clustered silicon concentration in substoichiometric silicon oxide layer. <i>Applied Physics Letters</i> , 2005, 87, 044102. | 1.5 | 26 |
| 132 | Nucleation kinetics of Si quantum dots on SiO ₂ . <i>Journal of Applied Physics</i> , 2004, 95, 2049-2055. | 1.1 | 35 |
| 133 | Local Self-Order Observed During Chemical Vapor Deposition of Silicon Quantum Dots for Application in Nanocrystal Memories. <i>Materials Research Society Symposia Proceedings</i> , 2004, 830, 237. | 0.1 | 0 |
| 134 | Development of silicon nitride dots for nanocrystal memory cells. <i>Solid-State Electronics</i> , 2004, 48, 1519-1524. | 0.8 | 13 |
| 135 | Exclusion zone surrounding silicon nanoclusters formed by rapid thermal chemical vapour deposition on SiO ₂ . <i>Surface Science</i> , 2004, 550, 119-126. | 0.8 | 17 |
| 136 | Imaging of Si quantum dots as charge storage nodes. <i>Materials Science and Engineering C</i> , 2003, 23, 1047-1051. | 3.8 | 10 |
| 137 | Observation of the nucleation kinetics of Si quantum dots on SiO ₂ by energy filtered transmission electron microscopy. <i>Applied Surface Science</i> , 2003, 205, 304-308. | 3.1 | 23 |
| 138 | Memory effects in MOS devices based on Si quantum dots. <i>Materials Science and Engineering C</i> , 2003, 23, 33-36. | 3.8 | 10 |
| 139 | Charging effects in Si quantum dots for Non Volatile Memories applications monitored by Electrostatic Force Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2003, 794, 7. | 0.1 | 0 |
| 140 | Nanocrystal MOS Memories Obtained by LPCVD Deposition of Si Nanograins. <i>Solid State Phenomena</i> , 2002, 82-84, 663-668. | 0.3 | 1 |
| 141 | Nanocrystal metal-oxide-semiconductor memories obtained by chemical vapor deposition of Si nanocrystals. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2075. | 1.6 | 34 |
| 142 | How far will silicon nanocrystals push the scaling limits of NVMs technologies?. , 0, , . | | 52 |
| 143 | Effect of high-k materials in the control dielectric stack of nanocrystal memories. , 0, , . | | 2 |
| 144 | Origin of the Current Transport Anisotropy in Epitaxial Graphene Grown on Vicinal 4H-SiC (0001) Surfaces. <i>Materials Science Forum</i> , 0, 806, 103-107. | 0.3 | 1 |

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|-----|--|-----|-----------|
| 145 | Atomistic Simulations and Interfacial Morphology of Graphene Grown on SiC(0001) and SiC(000-1) Substrates. Materials Science Forum, 0, 858, 1121-1124. | 0.3 | 0 |
| 146 | Interfacial Disorder of Graphene Grown at High Temperatures on 4H-SiC(000-1). Materials Science Forum, 0, 858, 1129-1132. | 0.3 | 0 |
| 147 | Stacking Faults Defects on 3C-SiC Homo-Epitaxial Films. Materials Science Forum, 0, 924, 124-127. | 0.3 | 5 |