

Richard Martel

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.

210
papers

17,040
citations

52
h-index

129
g-index

250
ext. papers

18,569
ext. citations

7.2
avg, IF

6.35
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 210 | Negative differential resistance in photoassisted field emission from Si nanowires. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2022 , 40, 022802 | 1.3 | 0 |
| 209 | Infrared Study of Charge Carrier Confinement in Doped (6,5) Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5700-5707 | 3.8 | 3 |
| 208 | Plasma-graphene interactions: combined effects of positive ions, vacuum-ultraviolet photons, and metastable species. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 295202 | 3 | 1 |
| 207 | Preferential self-healing at grain boundaries in plasma-treated graphene. <i>Nature Materials</i> , 2021 , 20, 49-54 | 27 | 16 |
| 206 | Incorporation-limiting mechanisms during nitrogenation of monolayer graphene films in nitrogen flowing afterglows. <i>Nanoscale</i> , 2021 , 13, 2891-2901 | 7.7 | 1 |
| 205 | Postgrowth modification of monolayer graphene films by low-pressure diborane-argon plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 043003 | 2.9 | |
| 204 | Sustainable production and co-immobilization of cold-active enzymes from <i>Pseudomonas</i> sp. for BTEX biodegradation. <i>Environmental Pollution</i> , 2021 , 285, 117678 | 9.3 | 5 |
| 203 | pH responsive platinum-coated single-walled carbon nanotube optical sensor with internal reference. <i>Carbon</i> , 2021 , 184, 659-668 | 10.4 | 1 |
| 202 | Column tests for evaluation of the enzymatic biodegradation capacity of hydrocarbons (C-C) contaminated soil. <i>Environmental Pollution</i> , 2021 , 290, 117986 | 9.3 | 1 |
| 201 | Selective nitrogen doping of graphene due to preferential healing of plasma-generated defects near grain boundaries. <i>Npj 2D Materials and Applications</i> , 2020 , 4, | 8.8 | 5 |
| 200 | Confinement of Dyes inside Boron Nitride Nanotubes: Photostable and Shifted Fluorescence down to the Near Infrared. <i>Advanced Materials</i> , 2020 , 32, e2001429 | 24 | 13 |
| 199 | Probing plasma-treated graphene using hyperspectral Raman. <i>Review of Scientific Instruments</i> , 2020 , 91, 063903 | 1.7 | 6 |
| 198 | Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , 2020 , 15, 164-166 | 28.7 | 40 |
| 197 | Narrow energy distributions of electrons emitted from clean graphene edges. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 5 |
| 196 | Optimisation of Dyes@SWCNT Raman Nanoprobes. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 660-660 | 0 | 0 |
| 195 | Van Der Waals Growth of III-V Semiconductors on Graphene. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 835-835 | 0 | 0 |
| 194 | Double-walled carbon nanotube film as the active electrode in an electro-optical modulator for the mid-infrared and terahertz regions. <i>Journal of Applied Physics</i> , 2020 , 128, 233103 | 2.5 | 3 |

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|-----|---|------|-----|
| 193 | Surfactant Foam Selection for Enhanced Light Non-Aqueous Phase Liquids (LNAPL) Recovery in Contaminated Aquifers. <i>Transport in Porous Media</i> , 2020 , 131, 65-84 | 3.1 | 5 |
| 192 | Resonant, Plasmonic Raman Enhancement of BT Molecules Encapsulated in Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10578-10585 | 3.8 | 6 |
| 191 | Alignment of semiconducting graphene nanoribbons on vicinal Ge(001). <i>Nanoscale</i> , 2019 , 11, 4864-4875 | 7.7 | 20 |
| 190 | Momentum-Resolved Dielectric Response of Free-Standing Mono-, Bi-, and Trilayer Black Phosphorus. <i>Nano Letters</i> , 2019 , 19, 8303-8310 | 11.5 | 12 |
| 189 | A combination of plasma diagnostics and Raman spectroscopy to examine plasma-graphene interactions in low-pressure argon radiofrequency plasmas. <i>Journal of Applied Physics</i> , 2019 , 126, 233302 | 2.5 | 10 |
| 188 | Low-damage nitrogen incorporation in graphene films by nitrogen plasma treatment: Effect of airborne contaminants. <i>Carbon</i> , 2019 , 144, 532-539 | 10.4 | 13 |
| 187 | Large magnetoresistance by Pauli blockade in hydrogenated graphene. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 2 |
| 186 | Cellular imaging by targeted assembly of hot-spot SERS and photoacoustic nanoprobe using split-fluorescent protein scaffolds. <i>Nature Communications</i> , 2018 , 9, 607 | 17.4 | 78 |
| 185 | Growth and Luminescence of Polytropic InP on Epitaxial Graphene. <i>Advanced Functional Materials</i> , 2018 , 28, 1705592 | 15.6 | 12 |
| 184 | Second-Order Raman Scattering in Exfoliated Black Phosphorus. <i>Nano Letters</i> , 2018 , 18, 1018-1027 | 11.5 | 22 |
| 183 | Comparative Study of Various Types of Metal-Free N and S Co-Doped Porous Graphene for High Performance Oxygen Reduction Reaction in Alkaline Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 4565-4579 | 1.3 | 12 |
| 182 | Electrostatic Deposition of Large-Surface Graphene. <i>Materials</i> , 2018 , 11, | 3.5 | 5 |
| 181 | Hyperspectral Raman imaging using Bragg tunable filters of graphene and other low-dimensional materials. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 174-182 | 2.3 | 27 |
| 180 | Treatment of graphene films in the early and late afterglows of N ₂ plasmas: comparison of the defect generation and N-incorporation dynamics. <i>Plasma Sources Science and Technology</i> , 2018 , 27, 124004 | 2.5 | 8 |
| 179 | A field-deployed surface plasmon resonance (SPR) sensor for RDX quantification in environmental waters. <i>Analyst</i> , 2017 , 142, 2161-2168 | 5 | 18 |
| 178 | Antiresonances in the Mid-Infrared Vibrational Spectrum of Functionalized Graphene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9053-9062 | 3.8 | 5 |
| 177 | Synthesis of Antimonene on Germanium. <i>Nano Letters</i> , 2017 , 17, 4970-4975 | 11.5 | 157 |
| 176 | Plasmonic enhancement of SERS measured on molecules in carbon nanotubes. <i>Faraday Discussions</i> , 2017 , 205, 85-103 | 3.6 | 12 |

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| 175 | A Low-Cost Automated Test Column to Estimate Soil Hydraulic Characteristics in Unsaturated Porous Media. <i>Geofluids</i> , 2017 , 2017, 1-13 | 1.5 | 8 |
| 174 | Physicochemical properties of peptide-coated microelectrode arrays and their in vitro effects on neuroblast cells. <i>Materials Science and Engineering C</i> , 2016 , 68, 642-650 | 8.3 | 12 |
| 173 | Polarization-Resolved Raman Study of Bulk-like and Davydov-Induced Vibrational Modes of Exfoliated Black Phosphorus. <i>Nano Letters</i> , 2016 , 16, 7761-7767 | 11.5 | 48 |
| 172 | Aggregation Control of Hexithiophene via Isothermal Encapsulation Inside Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2016 , 10, 10220-10226 | 16.7 | 24 |
| 171 | Suspended graphene variable capacitor. <i>2D Materials</i> , 2016 , 3, 041005 | 5.9 | 12 |
| 170 | Carrier dynamics in gated graphene revealed by tunable-infrared-pump/terahertz-probe spectroscopy 2016 , | | 1 |
| 169 | Spectroscopy on Black Phosphorus exfoliated down to the monolayer 2016 , 478-479 | | |
| 168 | Dynamics and Mechanisms of Exfoliated Black Phosphorus Sublimation. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1667-74 | 6.4 | 32 |
| 167 | Two-dimensional magnetotransport in a black phosphorus naked quantum well. <i>Nature Communications</i> , 2015 , 6, 7702 | 17.4 | 135 |
| 166 | Tailoring the Growth Rate and Surface Facet for Synthesis of High-Quality Continuous Graphene Films from CH ₄ at 750 °C via Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11516-11523 | 3.8 | 12 |
| 165 | Direct oriented growth of armchair graphene nanoribbons on germanium. <i>Nature Communications</i> , 2015 , 6, 8006 | 17.4 | 134 |
| 164 | Optimal groundwater remediation design of pump and treat systems via a simulation optimization approach and firefly algorithm. <i>Engineering Optimization</i> , 2015 , 47, 1-17 | 2 | 23 |
| 163 | Measurement of topological Berry phase in highly disordered graphene. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 11 |
| 162 | Measurement of electronic heat dissipation in highly disordered graphene. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 6 |
| 161 | High-field response of gated graphene at terahertz frequencies. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 19 |
| 160 | Intense terahertz field effects on photoexcited carrier dynamics in gated graphene. <i>Applied Physics Letters</i> , 2015 , 107, 251903 | 3.4 | 14 |
| 159 | Photooxidation and quantum confinement effects in exfoliated black phosphorus. <i>Nature Materials</i> , 2015 , 14, 826-32 | 27 | 949 |
| 158 | Graft-induced midgap states in functionalized carbon nanotubes. <i>ACS Nano</i> , 2015 , 9, 2626-34 | 16.7 | 11 |

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|-----|--|------|----|
| 157 | Intense Terahertz Field-induced Carrier Dynamics in Gated Monolayer Graphene 2015 , | | 1 |
| 156 | Giant Raman scattering from J-aggregated dyes inside carbon nanotubes for multispectral imaging. <i>Nature Photonics</i> , 2014 , 8, 72-78 | 33.9 | 63 |
| 155 | Graphene CVD: Interplay Between Growth and Etching on Morphology and Stacking by Hydrogen and Oxidizing Impurities. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21532-21540 | 3.8 | 55 |
| 154 | Nitroglycerin degradation mediated by soil organic carbon under aerobic conditions. <i>Journal of Contaminant Hydrology</i> , 2014 , 166, 52-63 | 3.9 | 3 |
| 153 | Methodology developed to make the Quebec indoor radon potential map. <i>Science of the Total Environment</i> , 2014 , 473-474, 372-80 | 10.2 | 14 |
| 152 | Biodegradation of nitroglycerin from propellant residues on military training ranges. <i>Journal of Environmental Quality</i> , 2014 , 43, 441-9 | 3.4 | 2 |
| 151 | Accuracy of Lysimeters for Dissolved Copper, Antimony, Lead, and Zinc Sampling under Small Arms Backstop. <i>Vadose Zone Journal</i> , 2014 , 13, vzt2014.02.0013 | 2.7 | 0 |
| 150 | Groundwater deficit and land subsidence in central Mexico monitored by GRACE and RADARSAT-2 2014 , | | 4 |
| 149 | Raman tags derived from dyes encapsulated inside carbon nanotubes for Raman imaging of biological samples. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2790-2794 | 1.6 | 2 |
| 148 | Titanium phthalocyanine ambipolar thin film transistors making use of carbon nanotube electrodes. <i>Nanotechnology</i> , 2014 , 25, 485703 | 3.4 | 6 |
| 147 | TOWARD HIGH-PERFORMANCE, GREENER, AND LOW-VULNERABILITY MUNITIONS WITH THE RIGHTTRAC TECHNOLOGY DEMONSTRATOR PROGRAM. <i>International Journal of Energetic Materials and Chemical Propulsion</i> , 2014 , 13, 7-36 | 1.9 | 2 |
| 146 | Stable isotopes of nitrate reflect natural attenuation of propellant residues on military training ranges. <i>Environmental Science & Technology</i> , 2013 , 47, 8265-72 | 10.3 | 5 |
| 145 | Quantum Hall effect in hydrogenated graphene. <i>Physical Review Letters</i> , 2013 , 110, 176801 | 7.4 | 25 |
| 144 | Chemical Leaching of Antimony and Other Metals from Small Arms Shooting Range Soil. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1 | 2.6 | 24 |
| 143 | The effect of subsurface military detonations on vadose zone hydraulic conductivity, contaminant transport and aquifer recharge. <i>Journal of Contaminant Hydrology</i> , 2013 , 146, 8-15 | 3.9 | 3 |
| 142 | Counter-current acid leaching process for the removal of Cu, Pb, Sb and Zn from shooting range soil. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2377-87 | 2.6 | 3 |
| 141 | No Graphene Etching in Purified Hydrogen. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1100-3 | 6.4 | 70 |
| 140 | Accounting for aquifer heterogeneity from geological data to management tools. <i>Ground Water</i> , 2013 , 51, 421-31 | 2.4 | 9 |

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|-----|---|------|----|
| 139 | An approach to define potential radon emission level maps using indoor radon concentration measurements and radiogeochemical data positive proportion relationships. <i>Journal of Environmental Radioactivity</i> , 2013 , 124, 57-67 | 2.4 | 26 |
| 138 | Carbon nanotube electrodes in organic transistors. <i>Nanoscale</i> , 2013 , 5, 4638-46 | 7.7 | 34 |
| 137 | Photolysis of RDX and nitroglycerin in the context of military training ranges. <i>Chemosphere</i> , 2013 , 93, 14-9 | 8.4 | 13 |
| 136 | Influence of statistical distributions on the electrical properties of disordered and aligned carbon nanotube networks. <i>Journal of Applied Physics</i> , 2013 , 114, 114312 | 2.5 | 20 |
| 135 | Control over the interface properties of carbon nanotube-based optoelectronic memory devices. <i>Applied Physics Letters</i> , 2013 , 102, 013103 | 3.4 | 14 |
| 134 | Photothermoelectric effects in single-walled carbon nanotube films: Reinterpreting scanning photocurrent experiments. <i>Nano Research</i> , 2012 , 5, 73-81 | 10 | 36 |
| 133 | Raman spectroscopy hyperspectral imager based on Bragg tunable filters 2012 , | | 1 |
| 132 | Raman spectroscopy hyperspectral imager based on Bragg tunable filters 2012 , | | 5 |
| 131 | Light-Controlled Resistance Modulation in a Photochromic Diarylethene/Carbon Nanotube Blend. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19483-19489 | 3.8 | 30 |
| 130 | Fano resonances in the midinfrared spectra of single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2012 , 109, 097402 | 7.4 | 9 |
| 129 | Theoretical Investigation of Traveling-Wave Amplification in Metallic Carbon Nanotubes Biased by a DC Field. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 463-471 | 2.6 | 4 |
| 128 | Overestimation of nitrate and nitrite concentrations in water samples due to the presence of nitroglycerin or hexahydro-1,3,5-trinitro-1,3,5-triazine. <i>Journal of Chromatography A</i> , 2012 , 1252, 130-5 | 4.5 | 7 |
| 127 | The fate and transport of nitroglycerin in the unsaturated zone at active and legacy anti-tank firing positions. <i>Journal of Contaminant Hydrology</i> , 2012 , 142-143, 11-21 | 3.9 | 10 |
| 126 | Quasi-ideal current saturation in field emission and surface effect studies of individual hydrogen-passivated Si nanowires 2012 , | | 1 |
| 125 | Current saturation in field emission from H-passivated Si nanowires. <i>ACS Nano</i> , 2012 , 6, 7463-71 | 16.7 | 28 |
| 124 | EVALUATION OF GIM AS A GREENER INSENSITIVE MELT-CAST EXPLOSIVE. <i>International Journal of Energetic Materials and Chemical Propulsion</i> , 2012 , 11, 59-87 | 1.9 | 5 |
| 123 | Pumping dry: an increasing groundwater budget deficit induced by urbanization, industrialization, and climate change in an over-exploited volcanic aquifer. <i>Environmental Earth Sciences</i> , 2012 , 66, 1753-1767 | 2.9 | 11 |
| 122 | Unaltered electrical conductance in single-walled carbon nanotubes functionalized with divalent adducts. <i>Applied Physics Letters</i> , 2012 , 101, 053116 | 3.4 | 8 |

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|-----|---|------|-----|
| 121 | Canadian Approach to the Environmental Characterization and Risk Assessment of Military Training. <i>ACS Symposium Series</i> , 2011 , 49-76 | 0.4 | |
| 120 | Probing charge transfer at surfaces using graphene transistors. <i>Nano Letters</i> , 2011 , 11, 132-7 | 11.5 | 248 |
| 119 | Wall-selective probing of double-walled carbon nanotubes using covalent functionalization. <i>ACS Nano</i> , 2011 , 5, 4927-34 | 16.7 | 46 |
| 118 | Single-walled carbon nanotube thermopile for broadband light detection. <i>Nano Letters</i> , 2011 , 11, 609-13 | 11.5 | 59 |
| 117 | Making contacts to n-type organic transistors using carbon nanotube arrays. <i>ACS Nano</i> , 2011 , 5, 283-90 | 16.7 | 47 |
| 116 | Raman doping profiles of polyelectrolyte SWNTs in solution. <i>ACS Nano</i> , 2011 , 5, 9892-7 | 16.7 | 19 |
| 115 | Ambipolar copper phthalocyanine transistors with carbon nanotube array electrodes. <i>Applied Physics Letters</i> , 2011 , 98, 183303 | 3.4 | 40 |
| 114 | AC conductivity of metallic carbon nanotubes (CNTs) exposed to a DC field 2011 , | | 1 |
| 113 | Field emission measure of the time response of individual semiconducting nanowires to laser excitation. <i>Applied Physics Letters</i> , 2011 , 99, 072115 | 3.4 | 3 |
| 112 | Characterization and metal availability of copper, lead, antimony and zinc contamination at four Canadian small arms firing ranges. <i>Environmental Technology (United Kingdom)</i> , 2011 , 32, 767-81 | 2.6 | 41 |
| 111 | Thermal chemistry of methylene- and phenyl-functionalized carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1389-94 | 16.4 | 10 |
| 110 | Directed assembly of SWNTs by electrostatic interactions and its application for making network transistors. <i>Langmuir</i> , 2010 , 26, 607-12 | 4 | 5 |
| 109 | Progress in Carbon Nanotube Electronics and Photonics. <i>MRS Bulletin</i> , 2010 , 35, 306-313 | 3.2 | 73 |
| 108 | Determination of Nitroglycerin and Its Degradation Products by Solid-Phase Extraction and LC-MS. <i>Chromatographia</i> , 2010 , 71, 285-289 | 2.1 | 8 |
| 107 | High performance resonance Raman spectroscopy using volume Bragg gratings as tunable light filters. <i>Review of Scientific Instruments</i> , 2010 , 81, 053111 | 1.7 | 19 |
| 106 | Evaluation of Physicochemical Methods for Treatment of Cu, Pb, Sb, and Zn in Canadian Small Arm Firing Ranges Backstop Soils. <i>Water, Air, and Soil Pollution</i> , 2010 , 213, 171-189 | 2.6 | 27 |
| 105 | C-band D-InSAR and field data for calibrating a groundwater flow and land subsidence model 2009 , | | 2 |
| 104 | Simulating the injection of micellar solutions to recover diesel in a sand column. <i>Journal of Contaminant Hydrology</i> , 2009 , 103, 99-108 | 3.9 | 13 |

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|-----|--|------|-----|
| 103 | The Role of the Oxygen/Water Redox Couple in Suppressing Electron Conduction in Field-Effect Transistors. <i>Advanced Materials</i> , 2009 , 21, 3087-3091 | 24 | 258 |
| 102 | Graphene field effect transistors with parylene gate dielectric. <i>Applied Physics Letters</i> , 2009 , 95, 242104 | 3.4 | 95 |
| 101 | Carbon nanotubes as injection electrodes for organic thin film transistors. <i>Nano Letters</i> , 2009 , 9, 1457-61 | 11.5 | 65 |
| 100 | Position sensitive photothermoelectric effect in suspended single-walled carbon nanotube films. <i>Nano Letters</i> , 2009 , 9, 3503-8 | 11.5 | 61 |
| 99 | Quantifying the transport of energetic materials in unsaturated sediments from cracked unexploded ordnance. <i>Journal of Environmental Quality</i> , 2009 , 38, 2229-36 | 3.4 | 24 |
| 98 | Behavior of energetic materials in ground water at an anti-tank range. <i>Journal of Environmental Quality</i> , 2009 , 38, 75-92 | 3.4 | 29 |
| 97 | Determination of the origin of groundwater nitrate at an air weapons range using the dual isotope approach. <i>Journal of Contaminant Hydrology</i> , 2008 , 98, 97-105 | 3.9 | 38 |
| 96 | Mechanism of the far-infrared absorption of carbon-nanotube films. <i>Physical Review Letters</i> , 2008 , 101, 267403 | 7.4 | 70 |
| 95 | Electroluminescence from single-wall carbon nanotube network transistors. <i>Nano Letters</i> , 2008 , 8, 2351-5 | 11.5 | 70 |
| 94 | Environmental impacts of training activities at an air weapons range. <i>Journal of Environmental Quality</i> , 2008 , 37, 308-17 | 3.4 | 34 |
| 93 | Hydrogeological study of an anti-tank range. <i>Journal of Environmental Quality</i> , 2008 , 37, 1468-76 | 3.4 | 5 |
| 92 | 2,4,6-Trinitrotoluene in soil and groundwater under a waste lagoon at the former Explosives Factory Maribyrnong (EFM), Victoria, Australia. <i>Environmental Geology</i> , 2008 , 53, 1249-1259 | | 9 |
| 91 | Groundwater flow and contaminant transport modelling at an air weapons range. <i>Environmental Geology</i> , 2008 , 55, 385-396 | | 10 |
| 90 | LaFexMoyMnzO3 perovskite as catalyst precursors for the CVD synthesis of carbon nanotubes. <i>Catalysis Today</i> , 2008 , 133-135, 846-854 | 5.3 | 16 |
| 89 | Sorting carbon nanotubes for electronics. <i>ACS Nano</i> , 2008 , 2, 2195-9 | 16.7 | 47 |
| 88 | Self-assembly of 1-D organic semiconductor nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1515-32 | 3.6 | 58 |
| 87 | Probing the reversibility of sidewall functionalization using carbon nanotube transistors. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2244-5 | 16.4 | 65 |
| 86 | Fate and Transport of 2,4,6-Trinitrotoluene in Loams at a Former Explosives Factory. <i>Soil and Sediment Contamination</i> , 2007 , 16, 159-179 | 3.2 | 14 |

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|----|---|------|-----|
| 85 | Optical response of single-wall carbon nanotube sheets in the far-infrared spectral range from 1 THz to 40 THz. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3950-3954 | 1.3 | 16 |
| 84 | Comparative study of methods for WHPA delineation. <i>Ground Water</i> , 2007 , 45, 158-67 | 2.4 | 29 |
| 83 | Memory Effect in Organic Diodes Containing Self-assembled Gold Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 997, 1 | | 1 |
| 82 | Visualization of TCE recovery mechanisms using surfactant-polymer solutions in a two-dimensional heterogeneous sand model. <i>Journal of Contaminant Hydrology</i> , 2006 , 86, 3-31 | 3.9 | 46 |
| 81 | Ultrafast dynamics of delocalized and localized electrons in carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 96, 027401 | 7.4 | 35 |
| 80 | Electrical bistability by self-assembled gold nanoparticles in organic diodes. <i>Applied Physics Letters</i> , 2006 , 89, 183502 | 3.4 | 33 |
| 79 | Exciton formation and annihilation during 1D impact excitation of carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 96, 136803 | 7.4 | 63 |
| 78 | Carbon nanotube sheets as electrodes in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2006 , 88, 183104 | 3.4 | 202 |
| 77 | Transport Properties 2006 , 335-437 | | 22 |
| 76 | Raman studies of solutions of single-wall carbon nanotube salts. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3949-54 | 3.4 | 25 |
| 75 | Quantitative Assessment of Regional Rock Aquifers, South-Western Quebec, Canada. <i>Water Resources Management</i> , 2006 , 20, 1-18 | 3.7 | 8 |
| 74 | Polychlorinated biphenyl (PCB) recovery under a building with an in situ technology using micellar solutions. <i>Canadian Geotechnical Journal</i> , 2005 , 42, 932-948 | 3.2 | 9 |
| 73 | Carbon monoxide poisoning associated with blasting operations close to underground enclosed spaces. Part 2. Special working procedures to minimize CO migration. <i>Canadian Geotechnical Journal</i> , 2004 , 41, 383-391 | 3.2 | 2 |
| 72 | TCE recovery mechanisms using micellar and alcohol solutions: phase diagrams and sand column experiments. <i>Journal of Contaminant Hydrology</i> , 2004 , 71, 155-92 | 3.9 | 19 |
| 71 | Displacement and sweep efficiencies in a DNAPL recovery test using micellar and polymer solutions injected in a five-spot pattern. <i>Journal of Contaminant Hydrology</i> , 2004 , 75, 1-29 | 3.9 | 33 |
| 70 | Molecular interactions in one-dimensional organic nanostructures. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5234-42 | 16.4 | 133 |
| 69 | Carbon monoxide poisoning associated with blasting operations close to underground enclosed spaces. Part 1. CO production and migration mechanisms. <i>Canadian Geotechnical Journal</i> , 2004 , 41, 371-382 | 3.2 | 2 |
| 68 | Hot Carrier Electroluminescence from a Single Carbon Nanotube. <i>Nano Letters</i> , 2004 , 4, 1063-1066 | 11.5 | 139 |

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|----|--|------|-----|
| 67 | Controlling Energy-Level Alignments at Carbon Nanotube/Au Contacts. <i>Nano Letters</i> , 2003 , 3, 783-787 | 11.5 | 216 |
| 66 | Carbon nanotube electronics. <i>Proceedings of the IEEE</i> , 2003 , 9, 1772-1784 | 14.3 | 453 |
| 65 | Electrical properties and transport in boron nitride nanotubes. <i>Applied Physics Letters</i> , 2003 , 82, 4131-4134 | 3.4 | 97 |
| 64 | Electrically induced optical emission from a carbon nanotube FET. <i>Science</i> , 2003 , 300, 783-6 | 33.3 | 775 |
| 63 | Evaluations and Considerations for Self-Assembled Monolayer Field-Effect Transistors. <i>Nano Letters</i> , 2003 , 3, 119-124 | 11.5 | 93 |
| 62 | Photoconductivity of Single Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 1067-1071 | 11.5 | 547 |
| 61 | Carbon nanotube transistors and logic circuits. <i>Physica B: Condensed Matter</i> , 2002 , 323, 6-14 | 2.8 | 85 |
| 60 | Carbon nanotubes as potential building blocks for future nanoelectronics. <i>Microelectronic Engineering</i> , 2002 , 64, 391-397 | 2.5 | 76 |
| 59 | Electrical Switching in Resonant 1D Intermolecular Channels. <i>Nano Letters</i> , 2002 , 2, 877-880 | 11.5 | 42 |
| 58 | Fabrication and electrical characterization of top gate single-wall carbon nanotube field-effect transistors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 2798 | | 38 |
| 57 | Carbon nanotube field-effect transistors and logic circuits. <i>Proceedings - Design Automation Conference</i> , 2002 , | | 6 |
| 56 | NANOELECTRONICS: SOME CURRENT ASPECTS AND PROSPECTS. <i>International Journal of High Speed Electronics and Systems</i> , 2002 , 12, 353-364 | 0.5 | 1 |
| 55 | The role of Schottky barriers on the behavior of carbon nanotube field-effect transistors. <i>AIP Conference Proceedings</i> , 2002 , | 0 | 2 |
| 54 | Electrical Properties of Carbon Nanotubes: Spectroscopy Localization and Electrical Breakdown 2002 , 223-237 | | 0 |
| 53 | Carbon nanotubes as schottky barrier transistors. <i>Physical Review Letters</i> , 2002 , 89, 106801 | 7.4 | 978 |
| 52 | Controlling doping and carrier injection in carbon nanotube transistors. <i>Applied Physics Letters</i> , 2002 , 80, 2773-2775 | 3.4 | 556 |
| 51 | Catalyst-Free Growth of Ordered Single-Walled Carbon Nanotube Networks. <i>Nano Letters</i> , 2002 , 2, 1043-1046 | 11.5 | 98 |
| 50 | Vertical scaling of carbon nanotube field-effect transistors using top gate electrodes. <i>Applied Physics Letters</i> , 2002 , 80, 3817-3819 | 3.4 | 514 |

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|----|--|------|-----|
| 49 | Simple fabrication scheme for sub-10 nm electrode gaps using electron-beam lithography. <i>Applied Physics Letters</i> , 2002 , 80, 865-867 | 3.4 | 152 |
| 48 | Field-modulated carrier transport in carbon nanotube transistors. <i>Physical Review Letters</i> , 2002 , 89, 126804 | 3.4 | 321 |
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