Richard Martel

List of Publications by Citations

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	Single- and multi-wall carbon nanotube field-effect transistors. *Applied Physics Letters*, **1998**, 73, 2447-2449	3.4	2333
209	Carbon nanotubes as schottky barrier transistors. *Physical Review Letters*, **2002**, 89, 106801	7.4	978
208	Photooxidation and quantum confinement effects in exfoliated black phosphorus. *Nature Materials* , **2015**, 14, 826-32	27	949
207	Carbon Nanotube Inter- and Intramolecular Logic Gates. *Nano Letters*, **2001**, 1, 453-456	11.5	847
206	Electrically induced optical emission from a carbon nanotube FET. *Science*, **2003**, 300, 783-6	33.3	775
205	Ambipolar electrical transport in semiconducting single-wall carbon nanotubes. *Physical Review Letters*, **2001**, 87, 256805	7.4	600
204	Controlling doping and carrier injection in carbon nanotube transistors. *Applied Physics Letters*, **2002**, 80, 2773-2775	3.4	556
203	Photoconductivity of Single Carbon Nanotubes. *Nano Letters*, **2003**, 3, 1067-1071	11.5	547
202	Vertical scaling of carbon nanotube field-effect transistors using top gate electrodes. *Applied Physics Letters*, **2002**, 80, 3817-3819	3.4	514
201	Current saturation and electrical breakdown in multiwalled carbon nanotubes. *Physical Review Letters*, **2001**, 86, 3128-31	7.4	493
200	Carbon nanotube electronics. *Proceedings of the IEEE*, **2003**, 9, 1772-1784	14.3	453
199	Atomic force microscope tip-induced local oxidation of silicon: kinetics, mechanism, and nanofabrication. *Applied Physics Letters*, **1997**, 71, 285-287	3.4	401
198	Field-modulated carrier transport in carbon nanotube transistors. *Physical Review Letters*, **2002**, 89, 126801	7.4	321
197	Manipulation of Individual Carbon Nanotubes and Their Interaction with Surfaces. *Journal of Physical Chemistry B*, **1998**, 102, 910-915	3.4	310
196	The Role of the Oxygen/Water Redox Couple in Suppressing Electron Conduction in Field-Effect Transistors. *Advanced Materials*, **2009**, 21, 3087-3091	24	258
195	Probing charge transfer at surfaces using graphene transistors. *Nano Letters*, **2011**, 11, 132-7	11.5	248
194	Carbon nanotubes: nanomechanics, manipulation, and electronic devices. *Applied Surface Science*, **1999**, 141, 201-209	6.7	224

193	Controlling Energy-Level Alignments at Carbon Nanotube/Au Contacts. *Nano Letters*, **2003**, 3, 783-787	11.5	216
192	Rings of single-walled carbon nanotubes. *Nature*, **1999**, 398, 299-299	50.4	216
191	Carbon nanotube sheets as electrodes in organic light-emitting diodes. *Applied Physics Letters*, **2006**, 88, 183104	3.4	202
190	Intertube coupling in ropes of single-wall carbon nanotubes. *Physical Review Letters*, **2000**, 85, 5186-9	7.4	198
189	Synthesis of Antimonene on Germanium. *Nano Letters*, **2017**, 17, 4970-4975	11.5	157
188	Simple fabrication scheme for sub-10 nm electrode gaps using electron-beam lithography. *Applied Physics Letters*, **2002**, 80, 865-867	3.4	152
187	Molecularly Adsorbed Oxygen Species on Si(111)-(7□7): STM-Induced Dissociative Attachment Studies. *Science*, **1996**, 272, 385-388	33.3	142
186	Hot Carrier Electroluminescence from a Single Carbon Nanotube. *Nano Letters*, **2004**, 4, 1063-1066	11.5	139
185	Two-dimensional magnetotransport in a black phosphorus naked quantum well. *Nature Communications*, **2015**, 6, 7702	17.4	135
184	Electrical transport in doped multiwalled carbon nanotubes. *Physical Review B*, **2001**, 63,	3.3	135
183	Direct oriented growth of armchair graphene nanoribbons on germanium. *Nature Communications*, **2015**, 6, 8006	17.4	134
182	Ring Formation in Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry B*, **1999**, 103, 7551-7556	3.4	134
181	Molecular interactions in one-dimensional organic nanostructures. *Journal of the American Chemical Society*, **2004**, 126, 5234-42	16.4	133
180	Electrical transport in rings of single-wall nanotubes: one-dimensional localization. *Physical Review Letters*, **2000**, 84, 4441-4	7.4	130
179	AFM-tip-induced and current-induced local oxidation of silicon and metals. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S659-S667	2.6	129
178	Carbon nanotube electronics. *IEEE Nanotechnology Magazine*, **2002**, 1, 184-189	2.6	104
177	Catalyst-Free Growth of Ordered Single-Walled Carbon Nanotube Networks. *Nano Letters*, **2002**, 2, 1043-1046	11.5	98
176	Electrical properties and transport in boron nitride nanotubes. *Applied Physics Letters*, **2003**, 82, 4131-4133	3.4	97

175	Graphene field effect transistors with parylene gate dielectric. *Applied Physics Letters*, **2009**, 95, 242104	3.4	95
174	Evaluations and Considerations for Self-Assembled Monolayer Field-Effect Transistors. *Nano Letters*, **2003**, 3, 119-124	11.5	93
173	Carbon nanotube transistors and logic circuits. *Physica B: Condensed Matter*, **2002**, 323, 6-14	2.8	85
172	Cellular imaging by targeted assembly of hot-spot SERS and photoacoustic nanoprobes using split-fluorescent protein scaffolds. *Nature Communications*, **2018**, 9, 607	17.4	78
171	Carbon nanotubes as potential building blocks for future nanoelectronics. *Microelectronic Engineering*, **2002**, 64, 391-397	2.5	76
170	Progress in Carbon Nanotube Electronics and Photonics. *MRS Bulletin*, **2010**, 35, 306-313	3.2	73
169	No Graphene Etching in Purified Hydrogen. *Journal of Physical Chemistry Letters*, **2013**, 4, 1100-3	6.4	70
168	Mechanism of the far-infrared absorption of carbon-nanotube films. *Physical Review Letters*, **2008**, 101, 267403	7.4	70
167	Electroluminescence from single-wall carbon nanotube network transistors. *Nano Letters*, **2008**, 8, 2351-5	11.5	70
166	Carbon nanotubes as injection electrodes for organic thin film transistors. *Nano Letters*, **2009**, 9, 1457-61	11.5	65
165	Probing the reversibility of sidewall functionalization using carbon nanotube transistors. *Journal of the American Chemical Society*, **2007**, 129, 2244-5	16.4	65
164	Giant Raman scattering from J-aggregated dyes inside carbon nanotubes for multispectral imaging. *Nature Photonics*, **2014**, 8, 72-78	33.9	63
163	Exciton formation and annihilation during 1D impact excitation of carbon nanotubes. *Physical Review Letters*, **2006**, 96, 136803	7.4	63
162	Position sensitive photothermoelectric effect in suspended single-walled carbon nanotube films. *Nano Letters*, **2009**, 9, 3503-8	11.5	61
161	Single-walled carbon nanotube thermopile for broadband light detection. *Nano Letters*, **2011**, 11, 609-13	11.5	59
160	Self-assembly of 1-D organic semiconductor nanostructures. *Physical Chemistry Chemical Physics*, **2007**, 9, 1515-32	3.6	58
159	Graphene CVD: Interplay Between Growth and Etching on Morphology and Stacking by Hydrogen and Oxidizing Impurities. *Journal of Physical Chemistry C*, **2014**, 118, 21532-21540	3.8	55
158	Polarization-Resolved Raman Study of Bulk-like and Davydov-Induced Vibrational Modes of Exfoliated Black Phosphorus. *Nano Letters*, **2016**, 16, 7761-7767	11.5	48

157	Optimized contact configuration for the study of transport phenomena in ropes of single-wall carbon nanotubes. *Applied Physics Letters*, **2001**, 78, 3313-3315	3.4	48
156	Making contacts to n-type organic transistors using carbon nanotube arrays. *ACS Nano*, **2011**, 5, 283-90	16.7	47
155	Sorting carbon nanotubes for electronics. *ACS Nano*, **2008**, 2, 2195-9	16.7	47
154	Wall-selective probing of double-walled carbon nanotubes using covalent functionalization. *ACS Nano*, **2011**, 5, 4927-34	16.7	46
153	Visualization of TCE recovery mechanisms using surfactant-polymer solutions in a two-dimensional heterogeneous sand model. *Journal of Contaminant Hydrology*, **2006**, 86, 3-31	3.9	46
152	Electrical Switching in Resonant 1D Intermolecular Channels. *Nano Letters*, **2002**, 2, 877-880	11.5	42
151	Current-induced local oxidation of metal films: Mechanism and quantum-size effects. *Applied Physics Letters*, **1998**, 73, 2173-2175	3.4	42
150	Characterization and metal availability of copper, lead, antimony and zinc contamination at four Canadian small arms firing ranges. *Environmental Technology (United Kingdom)*, **2011**, 32, 767-81	2.6	41
149	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. *Nature Nanotechnology*, **2020**, 15, 164-166	28.7	40
148	Ambipolar copper phthalocyanine transistors with carbon nanotube array electrodes. *Applied Physics Letters*, **2011**, 98, 183303	3.4	40
147	Determination of the origin of groundwater nitrate at an air weapons range using the dual isotope approach. *Journal of Contaminant Hydrology*, **2008**, 98, 97-105	3.9	38
146	Fabrication and electrical characterization of top gate single-wall carbon nanotube field-effect transistors. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 2798		38
145	Aquifer washing by micellar solutions: 2. DNAPL recovery mechanisms for an optimized alcohol surfactant solvent solution. *Journal of Contaminant Hydrology*, **1998**, 30, 1-31	3.9	37
144	Photothermoelectric effects in single-walled carbon nanotube films: Reinterpreting scanning photocurrent experiments. *Nano Research*, **2012**, 5, 73-81	10	36
143	Aquifer washing by micellar solutions: 1. *Journal of Contaminant Hydrology*, **1998**, 29, 319-346	3.9	36
142	Aquifer washing by micellar solutions:. *Journal of Contaminant Hydrology*, **1998**, 30, 33-48	3.9	36
141	Ultrafast dynamics of delocalized and localized electrons in carbon nanotubes. *Physical Review Letters*, **2006**, 96, 027401	7.4	35
140	Carbon nanotube electrodes in organic transistors. *Nanoscale*, **2013**, 5, 4638-46	7.7	34

139	Environmental impacts of training activities at an air weapons range. *Journal of Environmental Quality*, **2008**, 37, 308-17	3.4	34
138	Electrical bistability by self-assembled gold nanoparticles in organic diodes. *Applied Physics Letters*, **2006**, 89, 183502	3.4	33
137	Displacement and sweep efficiencies in a DNAPL recovery test using micellar and polymer solutions injected in a five-spot pattern. *Journal of Contaminant Hydrology*, **2004**, 75, 1-29	3.9	33
136	Cyclopropyl Species on Cu(110): Area Selective Activation of Adsorbed Cyclopropane Using a Dispersion Compensation HREELS Spectrometer. *Journal of the American Chemical Society*, **1994**, 116, 5965-5966	16.4	32
135	Dynamics and Mechanisms of Exfoliated Black Phosphorus Sublimation. *Journal of Physical Chemistry Letters*, **2016**, 7, 1667-74	6.4	32
134	Carbon nanotube field effect transistors for logic applications		31
133	Light-Controlled Resistance Modulation in a Photochromic Diarylethene□Carbon Nanotube Blend. *Journal of Physical Chemistry C*, **2012**, 116, 19483-19489	3.8	30
132	Behavior of energetic materials in ground water at an anti-tank range. *Journal of Environmental Quality*, **2009**, 38, 75-92	3.4	29
131	Comparative study of methods for WHPA delineation. *Ground Water*, **2007**, 45, 158-67	2.4	29
130	Sub-40 nm SOI V-groove n-MOSFETs. *IEEE Electron Device Letters*, **2002**, 23, 100-102	4.4	29
129	Current saturation in field emission from H-passivated Si nanowires. *ACS Nano*, **2012**, 6, 7463-71	16.7	28
128	Evaluation of Physicochemical Methods for Treatment of Cu, Pb, Sb, and Zn in Canadian Small Arm Firing Ranges Backstop Soils. *Water, Air, and Soil Pollution*, **2010**, 213, 171-189	2.6	27
127	Carbon nanotube field effect transistors - fabrication, device physics, and circuit implications		27
126	Hyperspectral Raman imaging using Bragg tunable filters of graphene and other low-dimensional materials. *Journal of Raman Spectroscopy*, **2018**, 49, 174-182	2.3	27
125	An approach to define potential radon emission level maps using indoor radon concentration measurements and radiogeochemical data positive proportion relationships. *Journal of Environmental Radioactivity*, **2013**, 124, 57-67	2.4	26
124	Industry sizes up nanotubes. *Physics World*, **2000**, 13, 49-53	0.5	26
123	Quantum Hall effect in hydrogenated graphene. *Physical Review Letters*, **2013**, 110, 176801	7.4	25
122	Raman studies of solutions of single-wall carbon nanotube salts. *Journal of Physical Chemistry B*, **2006**, 110, 3949-54	3.4	25

121	Aggregation Control of α-Sexithiophene via Isothermal Encapsulation Inside Single-Walled Carbon Nanotubes. *ACS Nano*, **2016**, 10, 10220-10226	16.7	24
120	Chemical Leaching of Antimony and Other Metals from Small Arms Shooting Range Soil. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	24
119	Quantifying the transport of energetic materials in unsaturated sediments from cracked unexploded ordnance. *Journal of Environmental Quality*, **2009**, 38, 2229-36	3.4	24
118	Manipulation of carbon nanotubes and properties of nanotube field-effect transistors and rings. *Microelectronic Engineering*, **1999**, 46, 101-104	2.5	24
117	Optimal groundwater remediation design of pump and treat systems via a simulation–optimization approach and firefly algorithm. *Engineering Optimization*, **2015**, 47, 1-17	2	23
116	Second-Order Raman Scattering in Exfoliated Black Phosphorus. *Nano Letters*, **2018**, 18, 1018-1027	11.5	22
115	Transport Properties **2006**, 335-437		22
114	Carbon nanotube electronics		21
113	Alignment of semiconducting graphene nanoribbons on vicinal Ge(001). *Nanoscale*, **2019**, 11, 4864-4875	7.7	20
112	Influence of statistical distributions on the electrical properties of disordered and aligned carbon nanotube networks. *Journal of Applied Physics*, **2013**, 114, 114312	2.5	20
111	Ultrathin 600°C Wet Thermal Silicon Dioxide. *Electrochemical and Solid-State Letters*, **1999**, 3, 84		20
110	High-field response of gated graphene at terahertz frequencies. *Physical Review B*, **2015**, 92,	3.3	19
109	Raman doping profiles of polyelectrolyte SWNTs in solution. *ACS Nano*, **2011**, 5, 9892-7	16.7	19
108	High performance resonance Raman spectroscopy using volume Bragg gratings as tunable light filters. *Review of Scientific Instruments*, **2010**, 81, 053111	1.7	19
107	TCE recovery mechanisms using micellar and alcohol solutions: phase diagrams and sand column experiments. *Journal of Contaminant Hydrology*, **2004**, 71, 155-92	3.9	19
106	A field-deployed surface plasmon resonance (SPR) sensor for RDX quantification in environmental waters. *Analyst, The*, **2017**, 142, 2161-2168	5	18
105	Short-channel like effects in Schottky barrier carbon nanotube field-effect transistors		18
104	Optical response of single-wall carbon nanotube sheets in the far-infrared spectral range from 1 THz to 40 THz. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 3950-3954	1.3	16

103	LaFexMoyMnzO3 perovskite as catalyst precursors for the CVD synthesis of carbon nanotubes. *Catalysis Today*, **2008**, 133-135, 846-854	5.3	16
102	Preferential self-healing at grain boundaries in plasma-treated graphene. *Nature Materials*, **2021**, 20, 49-54	27	16
101	Electron Energy Loss Vibrational Spectra of Cyclopropane on Cu(111): Negative Ion Formation at 6 eV. *Journal of Physical Chemistry B*, **1997**, 101, 4966-4971	3.4	15
100	Methodology developed to make the Quebec indoor radon potential map. *Science of the Total Environment*, **2014**, 473-474, 372-80	10.2	14
99	Intense terahertz field effects on photoexcited carrier dynamics in gated graphene. *Applied Physics Letters*, **2015**, 107, 251903	3.4	14
98	Control over the interface properties of carbon nanotube-based optoelectronic memory devices. *Applied Physics Letters*, **2013**, 102, 013103	3.4	14
97	Fate and Transport of 2,4,6-Trinitrotoluene in Loams at a Former Explosives Factory. *Soil and Sediment Contamination*, **2007**, 16, 159-179	3.2	14
96	Confinement of Dyes inside Boron Nitride Nanotubes: Photostable and Shifted Fluorescence down to the Near Infrared. *Advanced Materials*, **2020**, 32, e2001429	24	13
95	Photolysis of RDX and nitroglycerin in the context of military training ranges. *Chemosphere*, **2013**, 93, 14-9	8.4	13
94	Simulating the injection of micellar solutions to recover diesel in a sand column. *Journal of Contaminant Hydrology*, **2009**, 103, 99-108	3.9	13
93	Dissociative resonance activation of cyclopropane monolayers on copper: Evidence for CH and CC bond scission. *Journal of Chemical Physics*, **1997**, 107, 8619-8626	3.9	13
92	Scheme for the fabrication of ultrashort channel metal-oxide-semiconductor field-effect transistors. *Applied Physics Letters*, **2000**, 77, 298-300	3.4	13
91	Metallacyclobutane and Cyclopropyl Species on Cu(111) and Cu(110). *Journal of the American Chemical Society*, **1998**, 120, 2421-2427	16.4	13
90	Low-damage nitrogen incorporation in graphene films by nitrogen plasma treatment: Effect of airborne contaminants. *Carbon*, **2019**, 144, 532-539	10.4	13
89	Tailoring the Growth Rate and Surface Facet for Synthesis of High-Quality Continuous Graphene Films from CH4 at 750 °C via Chemical Vapor Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 11516-11523	3.8	12
88	Growth and Luminescence of Polytypic InP on Epitaxial Graphene. *Advanced Functional Materials*, **2018**, 28, 1705592	15.6	12
87	Physicochemical properties of peptide-coated microelectrode arrays and their in vitro effects on neuroblast cells. *Materials Science and Engineering C*, **2016**, 68, 642-650	8.3	12
86	Suspended graphene variable capacitor. *2D Materials*, **2016**, 3, 041005	5.9	12

85	Comparative Study of Various Types of Metal-Free N and S Co-Doped Porous Graphene for High Performance Oxygen Reduction Reaction in Alkaline Solution. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 4565-4579	1.3	12
84	Momentum-Resolved Dielectric Response of Free-Standing Mono-, Bi-, and Trilayer Black Phosphorus. *Nano Letters*, **2019**, 19, 8303-8310	11.5	12
83	Plasmonic enhancement of SERS measured on molecules in carbon nanotubes. *Faraday Discussions*, **2017**, 205, 85-103	3.6	12
82	Measurement of topological Berry phase in highly disordered graphene. *Physical Review B*, **2015**, 92,	3.3	11
81	Graft-induced midgap states in functionalized carbon nanotubes. *ACS Nano*, **2015**, 9, 2626-34	16.7	11
80	Pumping dry: an increasing groundwater budget deficit induced by urbanization, industrialization, and climate change in an over-exploited volcanic aquifer. *Environmental Earth Sciences*, **2012**, 66, 1753-1767	2.9	11
79	A 10 nm MOSFET concept. *Microelectronic Engineering*, **2001**, 56, 213-219	2.5	11
78	The fate and transport of nitroglycerin in the unsaturated zone at active and legacy anti-tank firing positions. *Journal of Contaminant Hydrology*, **2012**, 142-143, 11-21	3.9	10
77	Thermal chemistry of methylene- and phenyl-functionalized carbon nanotubes. *Journal of the American Chemical Society*, **2010**, 132, 1389-94	16.4	10
76	Groundwater flow and contaminant transport modelling at an air weapons range. *Environmental Geology*, **2008**, 55, 385-396		10
75	A combination of plasma diagnostics and Raman spectroscopy to examine plasma-graphene interactions in low-pressure argon radiofrequency plasmas. *Journal of Applied Physics*, **2019**, 126, 233302	2.5	10
74	Accounting for aquifer heterogeneity from geological data to management tools. *Ground Water*, **2013**, 51, 421-31	2.4	9
73	Fano resonances in the midinfrared spectra of single-walled carbon nanotubes. *Physical Review Letters*, **2012**, 109, 097402	7.4	9
72	2,4,6-Trinitrotoluene in soil and groundwater under a waste lagoon at the former Explosives Factory Maribyrnong (EFM), Victoria, Australia. *Environmental Geology*, **2008**, 53, 1249-1259		9
71	Polychlorinated biphenyl (PCB) recovery under a building with an in situ technology using micellar solutions. *Canadian Geotechnical Journal*, **2005**, 42, 932-948	3.2	9
70	A Low-Cost Automated Test Column to Estimate Soil Hydraulic Characteristics in Unsaturated Porous Media. *Geofluids*, **2017**, 2017, 1-13	1.5	8
69	Unaltered electrical conductance in single-walled carbon nanotubes functionalized with divalent adducts. *Applied Physics Letters*, **2012**, 101, 053116	3.4	8
68	Determination of Nitroglycerin and Its Degradation Products by Solid-Phase Extraction and LC–UV. *Chromatographia*, **2010**, 71, 285-289	2.1	8

67	Quantitative Assessment of Regional Rock Aquifers, South-Western Quebec, Canada. *Water Resources Management*, **2006**, 20, 1-18	3.7	8
66	Treatment of graphene films in the early and late afterglows of N2 plasmas: comparison of the defect generation and N-incorporation dynamics. *Plasma Sources Science and Technology*, **2018**, 27, 124004	3.5	8
65	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. *Journal of Chromatography A*, **2012**, 1252, 130-5	4.5	7
64	Localized and directed lateral growth of carbon nanotubes from a porous template. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 2745		7
63	Current-induced nanochemistry: Local oxidation of thin metal films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1999**, 17, 1451-1456	2.9	7
62	In situ SSIMS observation of CH bond formation on a sputtered Ni(111) surface. *Surface Science*, **1991**, 241, 39-46	1.8	7
61	Resonant, Plasmonic Raman Enhancement of □6T Molecules Encapsulated in Carbon Nanotubes. *Journal of Physical Chemistry C*, **2019**, 123, 10578-10585	3.8	6
60	Probing plasma-treated graphene using hyperspectral Raman. *Review of Scientific Instruments*, **2020**, 91, 063903	1.7	6
59	Measurement of electronic heat dissipation in highly disordered graphene. *Physical Review B*, **2015**, 92,	3.3	6
58	Titanyl phthalocyanine ambipolar thin film transistors making use of carbon nanotube electrodes. *Nanotechnology*, **2014**, 25, 485703	3.4	6
57	Facile Cyclization of Metallacyclobutane on Cu(110). *Journal of the American Chemical Society*, **1997**, 119, 7881-7882	16.4	6
56	Interaction of bromocyclopropane with Cu(110). *Surface Science*, **1998**, 414, 38-43	1.8	6
55	Technology for the fabrication of ultrashort channel metal□oxide□emiconductor field-effect transistors. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2001**, 19, 1737-1741	2.9	6
54	Phase-coherent transport in ropes of single-wall carbon nanotubes. *Physical Review B*, **2001**, 64,	3.3	6
53	Carbon nanotube field-effect transistors and logic circuits. *Proceedings - Design Automation Conference*, **2002**,		6
52	Antiresonances in the Mid-Infrared Vibrational Spectrum of Functionalized Graphene. *Journal of Physical Chemistry C*, **2017**, 121, 9053-9062	3.8	5
51	Selective nitrogen doping of graphene due to preferential healing of plasma-generated defects near grain boundaries. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	5
50	Narrow energy distributions of electrons emitted from clean graphene edges. *Physical Review B*, **2020**, 102,	3.3	5

49	Electrostatic Deposition of Large-Surface Graphene. *Materials*, **2018**, 11,	3.5	5
48	Stable isotopes of nitrate reflect natural attenuation of propellant residues on military training ranges. *Environmental Science & Technology*, **2013**, 47, 8265-72	10.3	5
47	Raman spectroscopy hyperspectral imager based on Bragg tunable filters **2012**,		5
46	EVALUATION OF GIM AS A GREENER INSENSITIVE MELT-CAST EXPLOSIVE. *International Journal of Energetic Materials and Chemical Propulsion*, **2012**, 11, 59-87	1.9	5
45	Directed assembly of SWNTs by electrostatic interactions and its application for making network transistors. *Langmuir*, **2010**, 26, 607-12	4	5
44	Hydrogeological study of an anti-tank range. *Journal of Environmental Quality*, **2008**, 37, 1468-76	3.4	5
43	Investigation of the inter-tube coupling in single-wall nanotube ropes. *Materials Science and Engineering C*, **2001**, 15, 291-294	8.3	5
42	Surfactant Foam Selection for Enhanced Light Non-Aqueous Phase Liquids (LNAPL) Recovery in Contaminated Aquifers. *Transport in Porous Media*, **2020**, 131, 65-84	3.1	5
41	Sustainable production and co-immobilization of cold-active enzymes from Pseudomonas sp. for BTEX biodegradation. *Environmental Pollution*, **2021**, 285, 117678	9.3	5
40	Groundwater deficit and land subsidence in central mexico monitored by grace and RADARSAT-2 **2014**,		4
39	Theoretical Investigation of Traveling-Wave Amplification in Metallic Carbon Nanotubes Biased by a DC Field. *IEEE Nanotechnology Magazine*, **2012**, 11, 463-471	2.6	4
38	Nitroglycerin degradation mediated by soil organic carbon under aerobic conditions. *Journal of Contaminant Hydrology*, **2014**, 166, 52-63	3.9	3
37	The effect of subsurface military detonations on vadose zone hydraulic conductivity, contaminant transport and aquifer recharge. *Journal of Contaminant Hydrology*, **2013**, 146, 8-15	3.9	3
36	Counter-current acid leaching process for the removal of Cu, Pb, Sb and Zn from shooting range soil. *Environmental Technology (United Kingdom)*, **2013**, 34, 2377-87	2.6	3
35	Field emission measure of the time response of individual semiconducting nanowires to laser excitation. *Applied Physics Letters*, **2011**, 99, 072115	3.4	3
34	Movable-mask reactive ion etch process for thickness control in devices. *Applied Physics Letters*, **1996**, 69, 2163-2165	3.4	3
33	Oxygen-promoted CD bond formation on a sputtered Ni(111) surface. *Surface Science*, **1992**, 273, 353-362	2.8	3
32	Double-walled carbon nanotube film as the active electrode in an electro-optical modulator for the mid-infrared and terahertz regions. *Journal of Applied Physics*, **2020**, 128, 233103	2.5	3

31	Infrared Study of Charge Carrier Confinement in Doped (6,5) Carbon Nanotubes. *Journal of Physical Chemistry C*, **2021**, 125, 5700-5707	3.8	3
30	Large magnetoresistance by Pauli blockade in hydrogenated graphene. *Physical Review B*, **2018**, 97,	3.3	2
29	Biodegradation of nitroglycerin from propellant residues on military training ranges. *Journal of Environmental Quality*, **2014**, 43, 441-9	3.4	2
28	Raman tags derived from dyes encapsulated inside carbon nanotubes for Raman imaging of biological samples. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 2790-2794	1.6	2
27	C-band D-InSAR and field data for calibrating a groundwater flow and land subsidence model **2009**,		2
26	Carbon nanotube devices for future nanoelectronics		2
25	Carbon monoxide poisoning associated with blasting operations close to underground enclosed spaces. Part 2. Special working procedures to minimize CO migration. *Canadian Geotechnical Journal*, **2004**, 41, 383-391	3.2	2
24	Carbon monoxide poisoning associated with blasting operations close to underground enclosed spaces. Part 1. CO production and migration mechanisms. *Canadian Geotechnical Journal*, **2004**, 41, 371-382	3.2	2
23	The role of Schottky barriers on the behavior of carbon nanotube field-effect transistors. *AIP Conference Proceedings*, **2002**,	0	2
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21	TOWARD HIGH-PERFORMANCE, GREENER, AND LOW-VULNERABILITY MUNITIONS WITH THE RIGHTTRAC TECHNOLOGY DEMONSTRATOR PROGRAM. *International Journal of Energetic Materials and Chemical Propulsion*, **2014**, 13, 7-36	1.9	2
20	Raman spectroscopy hyperspectral imager based on Bragg tunable filters **2012**,		1
19	Quasi-ideal current saturation in field emission and surface effect studies of individual hydrogen-passivated Si nanowires **2012**,		1
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