

# Giovanni Fanchini

## List of Publications by Year in descending order

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72  
papers

6,219  
citations

318942

23  
h-index

139680

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72  
docs citations

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times ranked

12738  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-in-One Step from a Radical Monomer: Vacuum Synthesis of Electroswitchable Radical Polymer Thin Films by Solvent-Free Surface Polymerization. <i>Chemistry of Materials</i> , 2022, 34, 4876-4883.	3.2	1
2	Hierarchical Co(OH) <sub>2</sub> /FeOOH/WO <sub>3</sub> ternary nanoflowers as a dual-function enzyme with pH-switchable peroxidase and catalase mimic activities for cancer cell detection and enhanced photodynamic therapy. <i>Chemical Engineering Journal</i> , 2021, 417, 129134.	6.6	37
3	Solid-State Chemiresistors from Two-Dimensional MoS <sub>2</sub> Nanosheets Functionalized with L-Cysteine for In-Line Sensing of Part-Per-Billion Cd <sup>2+</sup> Ions in Drinking Water. <i>ACS Omega</i> , 2020, 5, 643-649.	1.6	22
4	Universal Transfer Printing of Micelle-Templated Nanoparticles Using Plasma-Functionalized Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46530-46538.	4.0	4
5	Intrinsic Enzyme-like Activities of Cerium Oxide Nanocomposite and Its Application for Extracellular H <sub>2</sub> O <sub>2</sub> Detection Using an Electrochemical Microfluidic Device. <i>ACS Omega</i> , 2020, 5, 11883-11894.	1.6	53
6	Redox polymers incorporating pendant 6-oxoverdazyl and nitronyl nitroxide radicals. <i>Journal of Polymer Science</i> , 2020, 58, 309-319.	2.0	11
7	Solvent-free growth of carbon dots by sputter-plasma assisted chemical vapour deposition over large areas. <i>Carbon</i> , 2019, 146, 28-35.	5.4	12
8	In-line chemiresistors based on multilayer graphene for cadmium dication sensing in water. <i>FlatChem</i> , 2019, 17, 100118.	2.8	3
9	Thermal conductivity of thin film-substrate systems from two-side scanning photothermal deflection measurements: Theoretical model and validation. <i>Journal of Chemical Physics</i> , 2019, 150, 184201.	1.2	4
10	Graphene: Properties and Applications. , 2019, , 287-304.		4
11	Near-field scanning thermorefectance imaging (NeSTRI) as a nano-optical technique for contactlessly mapping the thermal conductivity of 2D materials at the nanoscale. , 2019, , .		0
12	On the role of different paramagnetic centers in conducting nickel oxide thin films. , 2019, , .		0
13	Thermo-optical characterization and thermal properties of graphene-polymer composites: a review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2901-2914.	2.7	28
14	Few-layer molybdenum disulfide nanosheets functionalized with L-cysteine for selective capture of Cd <sup>2+</sup> ions. <i>FlatChem</i> , 2018, 11, 15-23.	2.8	17
15	Ambipolar transport in tin dioxide thin film transistors promoted by PCBM fullerene. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20010-20016.	1.1	6
16	In situ Raman spectroscopy distinguishes between reversible and irreversible thiol modifications in L-cysteine. <i>RSC Advances</i> , 2017, 7, 2964-2970.	1.7	93
17	Contactless near-field scanning thermorefectance imaging. <i>Nanoscale</i> , 2017, 9, 4097-4106.	2.8	8
18	A Review of Three-Dimensional Scanning Near-Field Optical Microscopy (3D-SNOM) and Its Applications in Nanoscale Light Management. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 973.	1.3	90

#	ARTICLE	IF	CITATIONS
19	Graphene Thin Films and Graphene Decorated with Metal Nanoparticles. , 2016, , .		2
20	Porous graphene-based membranes for water purification from metal ions at low differential pressures. <i>Nanoscale</i> , 2016, 8, 9563-9571.	2.8	45
21	Effects of Solution History on Solâ€Gel Processed Tinâ€Oxide Thinâ€Film Transistors. <i>Journal of the American Ceramic Society</i> , 2016, 99, 4000-4006.	1.9	6
22	Design Criteria for Ultrathin Singleâ€Layer Flash Memristors from an Organic Polyradical. <i>Advanced Electronic Materials</i> , 2016, 2, 1600253.	2.6	15
23	Synthesis, characterization, and thinâ€film properties of 6â€oxoverdazyl polymers prepared by ringâ€opening metathesis polymerization. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1803-1813.	2.5	19
24	Direct synthesis of highly conducting graphene nanoribbon thin films from graphene ridges and wrinkles. <i>Acta Materialia</i> , 2016, 107, 96-101.	3.8	7
25	Cathode deposition, paramagnetic defect formation and performance degradation in polymerâ€fullerene solar cells. <i>Solar Energy</i> , 2016, 129, 20-27.	2.9	2
26	Tip-enhanced Raman spectroscopy of graphene-like and graphitic platelets on ultraflat gold nanoplates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21315-21322.	1.3	34
27	Self-assembled metallic nanoparticle superlattices on large-area graphene thin films: growth and evanescent waveguiding properties. <i>RSC Advances</i> , 2015, 5, 98814-98821.	1.7	6
28	Doping graphene thin films with metallic nanoparticles: Experiment and theory. <i>Carbon</i> , 2015, 95, 199-207.	5.4	23
29	Three-dimensional scanning near field optical microscopy (3D-SNOM) imaging of random arrays of copper nanoparticles: implications for plasmonic solar cell enhancement. <i>Nanoscale</i> , 2015, 7, 252-260.	2.8	17
30	Tessellated gold nanostructures from Au<sub>144</sub>(SCH<sub>2</sub>CH<sub>2</sub>Ph)<sub>60</sub> molecular precursors and their use in organic solar cell enhancement. <i>Nanoscale</i> , 2014, 6, 7570-7575.	2.8	11
31	6-Oxoverdazyl radical polymers with tunable electrochemical properties. <i>Polymer Chemistry</i> , 2014, 5, 5223-5226.	1.9	32
32	Facile nucleation of gold nanoparticles on graphene-based thin films from Au<sub>144</sub>molecular precursors. <i>Nanotechnology</i> , 2014, 25, 135601.	1.3	5
33	Reticular Growth of Silicon Ridges: Random Walk in Two Dimensions. <i>Crystal Growth and Design</i> , 2014, 14, 1193-1198.	1.4	1
34	Relationship between electrical and thermal conductivity in graphene-based transparent and conducting thin films. <i>Carbon</i> , 2013, 61, 595-601.	5.4	14
35	Disorder and defect formation mechanisms in molecular-beam-epitaxy grown silicon epilayers. <i>Thin Solid Films</i> , 2013, 527, 38-44.	0.8	3
36	The effect of direct amine substituted pushâ€pull oligothiophene chromophores on dye-sensitized and bulk heterojunction solar cells performance. <i>Tetrahedron</i> , 2013, 69, 3584-3592.	1.0	46

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37	Luminescence properties of defects in nanocrystalline ZnO. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	12
38	Influence of the addition of graphene-like materials on the thermophysical properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) thin film nanocomposites. <i>Thin Solid Films</i> , 2013, 534, 520-528.	0.8	12
39	Aligned carbon nanotube webs as a replacement for indium tin oxide in organic solar cells. <i>Thin Solid Films</i> , 2013, 531, 525-529.	0.8	17
40	Electron paramagnetic resonance in positively charged Au <sub>25</sub> molecular nanoclusters. <i>Journal of Chemical Physics</i> , 2013, 138, 024305.	1.2	12
41	Acridine orange as a biosensitive photovoltaic material. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	6
42	A combined theoretical-experimental investigation of paramagnetic centres in chemically exfoliated graphene nanoribbons. <i>Journal of Applied Physics</i> , 2013, 114, 024309.	1.1	6
43	Thermal stability of Au <sub>25</sub> molecular precursors and nucleation of gold nanoparticles in thermosetting polyimide thin films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	9
44	Correlation between density of paramagnetic centers and photovoltaic degradation in polythiophene-fullerene bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	17
45	THE FORMATION OF COSMIC FULLERENES FROM AROPHATIC CLUSTERS. <i>Astrophysical Journal</i> , 2012, 761, 35.	1.6	75
46	Optoelectronic and thermal properties of solution-based graphene thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 2374-2379.	0.8	4
47	SOLUTION PROCESSED GRAPHENE THIN FILMS AND THEIR APPLICATIONS IN ORGANIC SOLAR CELLS. <i>International Journal of Modern Physics B</i> , 2012, 26, 1242004.	1.0	11
48	Transparent and Conducting Graphene-RNA-Based Nanocomposites. <i>Small</i> , 2012, 8, 699-706.	5.2	25
49	Structure, surface morphology and electrochemical properties of brominated activated carbons. <i>Carbon</i> , 2011, 49, 2538-2548.	5.4	84
50	ROOM TEMPERATURE DEPOSITION OF SINGLE-WALLED CARBON NANOTUBE THIN FILMS. <i>Nano</i> , 2010, 05, 319-324.	0.5	0
51	Toxicity induced enhanced extracellular matrix production in osteoblastic cells cultured on single-walled carbon nanotube networks. <i>Nanotechnology</i> , 2009, 20, 255101.	1.3	54
52	Dibenzo[b,def]chrysene Derivatives: Solution-Processable Small Molecules that Deliver High Power-Conversion Efficiencies in Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 5701-5703.	3.2	98
53	Study of Underlying Electrochemical Mechanisms in Nanoscale Amorphous Carbon-Iodine Electrodes. <i>ECS Transactions</i> , 2008, 11, 113-118.	0.3	1
54	<i>In Situ</i> Monitoring of Structural Changes in Boron Carbide Under Electric Fields. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2666-2669.	1.9	33

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55	Large-area ultrathin films of reduced graphene oxide as a transparent and flexible electronic material. <i>Nature Nanotechnology</i> , 2008, 3, 270-274.	15.6	4,057
56	Optical Anisotropy in Single-Walled Carbon Nanotube Thin Films: Implications for Transparent and Conducting Electrodes in Organic Photovoltaics. <i>Nano Letters</i> , 2008, 8, 2176-2179.	4.5	65
57	Bundling dynamics of single walled carbon nanotubes in aqueous suspensions. <i>Journal of Applied Physics</i> , 2008, 103, 093118.	1.1	9
58	Investigation of nanoscale morphological changes in organic photovoltaics during solvent vapor annealing. <i>Journal of Materials Chemistry</i> , 2008, 18, 306-312.	6.7	288
59	Faradaic and Non-Faradaic Reaction Mechanisms in Carbon-iodine Nanocomposites Electrodes for Asymmetric Hybrid Supercapacitors. <i>ECS Transactions</i> , 2008, 13, 13-19.	0.3	2
60	Microporous Carbon-halide Nanocomposites Electrodes for Symmetric and Asymmetric Capacitor. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1100, 6041.	0.1	0
61	Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1.	0.1	0
62	Nanostructured Halide Modified Carbon Electrodes for Symmetric and Asymmetric Electrochemical Supercapacitors. <i>ECS Transactions</i> , 2007, 6, 177-182.	0.3	0
63	Improved conductivity of transparent single-wall carbon nanotube thin films via stable postdeposition functionalization. <i>Applied Physics Letters</i> , 2007, 90, 121913.	1.5	219
64	Modification of transparent and conducting single wall carbon nanotube thin films via bromine functionalization. <i>Applied Physics Letters</i> , 2007, 90, 092114.	1.5	42
65	Voltage-Induced Dependence of Raman-Active Modes in Single-Wall Carbon Nanotube Thin Films. <i>Nano Letters</i> , 2007, 7, 1129-1133.	4.5	6
66	Optoelectronic properties of transparent and conducting single-wall carbon nanotube thin films. <i>Applied Physics Letters</i> , 2006, 88, 191919.	1.5	47
67	Design Criteria for Transparent Single-Wall Carbon Nanotube Thin-Film Transistors. <i>Nano Letters</i> , 2006, 6, 677-682.	4.5	164
68	Behavior of Disordered Boron Carbide under Stress. <i>Physical Review Letters</i> , 2006, 97, 035502.	2.9	139
69	The Role of Multiple Polytypes in Determining the Catastrophic Failure of Boron Carbide at High Shock Velocities. <i>Materials Research Society Symposia Proceedings</i> , 2005, 904, 1.	0.1	1
70	Root Causes of the Performance of Boron Carbide Under Stress. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 179-188.	0.1	5
71	Correlation Between Local Structure and Film Properties in Amorphous Carbon Materials. , 0, , 95-105.		3
72	A divergent strategy for the synthesis of redox-active verdazyl radical polymers. <i>Polymer Chemistry</i> , 0, , .	1.9	15