Filippo Fabbri

List of Publications by Year in Descending Order

97 papers	2,801 citations	24 h-index	51 g-index
109 ext. papers	3,229 ext. citations	6.1 avg, IF	4.93 L-index

#	Paper	IF	Citations
97	3D arrangement of epitaxial graphene conformally grown on porousified crystalline SiC. *Carbon*, **2022**, 189, 210-218	10.4	0
96	Ultrafast hot carrier transfer in WS2/graphene large area heterostructures. *Npj 2D Materials and Applications*, **2022**, 6,	8.8	2
95	Ultrafast Charge Separation in Bilayer WS2/Graphene Heterostructure Revealed by Time- and Angle-Resolved Photoemission Spectroscopy. *Frontiers in Physics*, **2021**, 9,	3.9	1
94	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. *Nanotechnology*, **2021**, 32, 155504	3.4	4
93	Thermal stability of monolayer WS2 in BEOL conditions. *JPhys Materials*, **2021**, 4, 024002	4.2	2
92	Evaluating the plasmon-exciton interaction in ZnO tetrapods coupled with gold nanostructures by nanoscale cathodoluminescence. *Nano Express*, **2021**, 2, 014004	2	
91	Synthesis of Large-Scale Monolayer 1TSMoTe and Its Stabilization Scalable hBN Encapsulation. *ACS Nano*, **2021**, 15, 4213-4225	16.7	15
90	Wafer-Scale Integration of Graphene-Based Photonic Devices. *ACS Nano*, **2021**, 15, 3171-3187	16.7	24
89	Gold nanoparticle assisted synthesis of MoS2 monolayers by chemical vapor deposition. *Nanoscale Advances*, **2021**, 3, 4826-4833	5.1	5
88	Deterministic synthesis of Cu9S5 flakes assisted by single-layer graphene arrays. *Nanoscale Advances*, **2021**, 3, 1352-1361	5.1	0
87	Microscopic Understanding of Ultrafast Charge Transfer in van der Waals Heterostructures.. *Physical Review Letters*, **2021**, 127, 276401	7.4	4
86	Direct evidence for efficient ultrafast charge separation in epitaxial WS/graphene heterostructures. *Science Advances*, **2020**, 6, eaay0761	14.3	35
85	Transforming colloidal CsPbBr nanocrystals with poly(maleic anhydride--1-octadecene) into stable CsPbBr perovskite emitters through intermediate heterostructures. *Chemical Science*, **2020**, 11, 3986-3995	9.4	37
84	Graphene Promotes Axon Elongation through Local Stall of Nerve Growth Factor Signaling Endosomes. *Nano Letters*, **2020**, 20, 3633-3641	11.5	21
83	Optical dielectric function of two-dimensional WS2 on epitaxial graphene. *2D Materials*, **2020**, 7, 025024	5.9	6
82	Edge Defects Promoted Oxidation of Monolayer WS2 Synthesized on Epitaxial Graphene. *Journal of Physical Chemistry C*, **2020**, 124, 9035-9044	3.8	12
81	Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. *Nano Letters*, **2020**, 20, 567-576	11.5	10

80	Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. *Nature Communications*, **2020**, 11, 3566	17.4	61
79	Effect of Chemical Vapor Deposition WS on Viability and Differentiation of SH-SY5Y Cells. *Frontiers in Neuroscience*, **2020**, 14, 592502	5.1	3
78	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. *ACS Nano*, **2020**, 14, 11190-11204	16.7	24
77	Assembly of Pt Nanoparticles on Graphitized Carbon Nanofibers as Hierarchically Structured Electrodes. *ACS Applied Nano Materials*, **2020**, 3, 9880-9888	5.6	4
76	High-temperature nitrogen annealing induced bonding states and photoluminescence changes in inductively coupled plasma torch synthesized silicon nanostructures. *Journal of Applied Physics*, **2020**, 128, 024302	2.5	1
75	Driving with temperature the synthesis of graphene on Ge(110). *Applied Surface Science*, **2020**, 499, 143923	6.7	15
74	Deterministic direct growth of WS 2 on CVD graphene arrays. *2D Materials*, **2020**, 7, 014002	5.9	8
73	Direct Probing of Grain Boundary Resistance in Chemical Vapor Deposition-Grown Monolayer MoS2 by Conductive Atomic Force Microscopy. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 1900393	2.5	15
72	Influence of organic promoter gradient on the MoS2 growth dynamics. *Nanoscale Advances*, **2020**, 2, 2352-2362	5.1	12
71	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. *ACS Omega*, **2019**, 4, 2256-2260	3.9	10
70	Titanium Dioxide Nanowires Grown on Titanium Disks Create a Nanostructured Surface with Improved Osteogenic Potential. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 4665-4670	1.3	3
69	Scanning tunneling microscopy and Raman evidence of silicene nanosheets intercalated into graphite surfaces at room temperature. *Nanoscale*, **2019**, 11, 6145-6152	7.7	9
68	Wafer-Scale Synthesis of Graphene on Sapphire: Toward Fab-Compatible Graphene. *Small*, **2019**, 15, e1904906	13.3	32
67	Local tuning of WS2 photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. *Applied Physics Letters*, **2019**, 115, 183101	3.4	5
66	Lineage-Specific Commitment of Stem Cells with Organic and Graphene Oxide Functionalized Nanofibers. *Advanced Functional Materials*, **2019**, 29, 1806694	15.6	8
65	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. *Carbon*, **2019**, 145, 345-351	10.4	9
64	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. *Nanoscale*, **2018**, 10, 4332-4338	7.7	19
63	A sensitive calorimetric technique to study energy (heat) exchange at the nano-scale. *Nanoscale*, **2018**, 10, 10079-10086	7.7	4

62	Raman investigation of air-stable silicene nanosheets on an inert graphite surface. *Nano Research*, **2018**, 11, 5879-5889	10	14
61	Ga2O3 epilayers as a material for solar-blind UV photodetectors. *Materials Chemistry and Physics*, **2018**, 205, 502-507	4.4	65
60	Low-defectiveness exfoliation of MoS nanoparticles and their embedment in hybrid light-emitting polymer nanofibers. *Nanoscale*, **2018**, 10, 21748-21754	7.7	12
59	Raman, FT-IR spectroscopy and morphology of carbon dust from carbon arc in liquid benzene. *Fullerenes Nanotubes and Carbon Nanostructures*, **2018**, 26, 654-660	1.8	3
58	Probing the nanoscale light emission properties of a CVD-grown MoS monolayer by tip-enhanced photoluminescence. *Nanoscale*, **2018**, 10, 14055-14059	7.7	22
57	Thrombin Assessment on Nanostructured Label-Free Aptamer-Based Sensors: A Mapping Investigation via Surface-Enhanced Raman Spectroscopy. *BioMed Research International*, **2018**, 2018, 5293672	3	1
56	Growth and characterization of Ga2O3 nanowires obtained on not-catalyzed and Au/Pt catalyzed substrates. *Journal of Crystal Growth*, **2017**, 457, 255-261	1.6	10
55	Functionalization of SiC/SiOx nanowires with a porphyrin derivative: a hybrid nanosystem for X-ray induced singlet oxygen generation. *Molecular Systems Design and Engineering*, **2017**, 2, 165-172	4.6	8
54	Morphological and structural properties of neutron-irradiated B12C3 boron carbide microcrystals. *Fullerenes Nanotubes and Carbon Nanostructures*, **2017**, 25, 585-588	1.8	5
53	Visible emission from bismuth-doped yttrium oxide thin films for lighting and display applications. *Scientific Reports*, **2017**, 7, 17325	4.9	11
52	Cold field electron emission of large-area arrays of SiC nanowires: photo-enhancement and saturation effects. *Journal of Materials Chemistry C*, **2016**, 4, 8226-8234	7.1	16
51	Novel near-infrared emission from crystal defects in MoS multilayer flakes. *Nature Communications*, **2016**, 7, 13044	17.4	47
50	S-induced modifications of the optoelectronic properties of ZnO mesoporous nanobelts. *Scientific Reports*, **2016**, 6, 27948	4.9	13
49	Nanoscale mapping of plasmon and exciton in ZnO tetrapods coupled with Au nanoparticles. *Scientific Reports*, **2016**, 6, 19168	4.9	24
48	Evidence of Native Cs Impurities and Metal Insulator Transition in MoS2 Natural Crystals. *Advanced Electronic Materials*, **2016**, 2, 1600091	6.4	11
47	Synthesis and enhanced effect of vanadium on structural and optical properties of zinc oxide. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	3
46	Silicon Carbide-Based Nanowires for Biomedical Applications **2016**, 311-342		2
45	Structural, optical and compositional stability of MoS 2 multi-layer flakes under high dose electron beam irradiation. *2D Materials*, **2016**, 3, 025024	5.9	16

44	Controlling the Surface Energetics and Kinetics of Hematite Photoanodes Through Few Atomic Layers of NiOx. *ACS Catalysis*, **2016**, 6, 3619-3628	13.1	60
43	Origin of the visible emission of black silicon microstructures. *Applied Physics Letters*, **2015**, 107, 021907	3.4	5
42	Multicolor Depth-Resolved Cathodoluminescence from Eu-Doped SiOC Thin Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 18201-5	9.5	7
41	Tuning the radial structure of core□hell silicon carbide nanowires. *CrystEngComm*, **2015**, 17, 1258-1263	3.3	24
40	Low Growth Temperature MOCVD InGaP for Multi-junction Solar Cells. *Energy Procedia*, **2015**, 84, 34-40	2.3	
39	Porphyrin conjugated SiC/SiOx nanowires for X-ray-excited photodynamic therapy. *Scientific Reports*, **2015**, 5, 7606	4.9	56
38	The critical role of intragap states in the energy transfer from gold nanoparticles to TiO2. *Physical Chemistry Chemical Physics*, **2015**, 17, 4864-9	3.6	35
37	Cubic Silicon Carbide Nanowires. *Carbon Materials*, **2015**, 101-129		1
36	PEDOT:PSS Interfaces Support the Development of Neuronal Synaptic Networks with Reduced Neuroglia Response In vitro. *Frontiers in Neuroscience*, **2015**, 9, 521	5.1	41
35	Visible and infra-red light emission in boron-doped wurtzite silicon nanowires. *Scientific Reports*, **2014**, 4, 3603	4.9	34
34	Zn vacancy induced green luminescence on non-polar surfaces in ZnO nanostructures. *Scientific Reports*, **2014**, 4, 5158	4.9	118
33	Optical and structural properties of Zn1□ Mg x O ceramic materials. *Applied Physics A: Materials Science and Processing*, **2014**, 116, 1501-1509	2.6	25
32	Carbon-doped SiO(x) nanowires with a large yield of white emission. *Nanotechnology*, **2014**, 25, 185704	3.4	14
31	Photoelectrochemical properties of ZnO nanorods decorated with Cu and Cu2O nanoparticles. *Superlattices and Microstructures*, **2014**, 72, 253-261	2.8	7
30	3C□SiC nanowires luminescent enhancement by coating with a conformal oxides layer. *Journal Physics D: Applied Physics*, **2014**, 47, 394006	3	12
29	Mesoporous single-crystal ZnO nanobelts: supported preparation and patterning. *Nanoscale*, **2013**, 5, 1060-6	7.7	28
28	Cathodoluminescence of Self-assembled Nanosystems **2013**, 557-601		2
27	Structural and luminescence properties of HfO2 nanocrystals grown by atomic layer deposition on SiC/SiO2 core/shell nanowires. *Scripta Materialia*, **2013**, 69, 744-747	5.6	7

26	Thermal Processing and Characterizations of Dye-Sensitized Solar Cells Based on Nanostructured TiO2. *Journal of Physical Chemistry C*, **2013**, 117, 3729-3738	3.8	5
25	Ion irradiation induced formation of CdO microcrystals on CdTe surfaces. *Materials Letters*, **2013**, 92, 397-400	3.3	6
24	Preparing the way for doping wurtzite silicon nanowires while retaining the phase. *Nano Letters*, **2013**, 13, 5900-6	11.5	26
23	Effects of Growth Parameters on SiC/SiO2 Core/Shell Nanowires Radial Structures. *Materials Science Forum*, **2013**, 740-742, 494-497	0.4	8
22	Depth-resolved cathodoluminescence spectroscopy of silicon supersaturated with sulfur. *Applied Physics Letters*, **2013**, 102, 031909	3.4	13
21	Luminescence properties of SiC/SiO2 core□shell nanowires with different radial structure. *Materials Letters*, **2012**, 71, 137-140	3.3	32
20	Optical properties of hybrid T3Pyr/SiO2/3C-SiC nanowires. *Nanoscale Research Letters*, **2012**, 7, 680	5	18
19	ZnS and ZnO Nanosheets from ZnS(en)0.5 Precursor: Nanoscale Structure and Photocatalytic Properties. *Journal of Physical Chemistry C*, **2012**, 116, 6960-6965	3.8	59
18	Effect of nature and location of defects on bandgap narrowing in black TiO2 nanoparticles. *Journal of the American Chemical Society*, **2012**, 134, 7600-3	16.4	1251
17	4H-SiC band structure investigated by surface photovoltage spectroscopy. *Acta Materialia*, **2012**, 60, 3350-3354	8.4	3
16	Selective □SiC/SiO2 Core-Shell NW Growth on Patterned Silicon Substrate. *Materials Science Forum* , **2012**, 711, 75-79	0.4	1
15	Emission Enhancement of SiC/SiO2 Core/Shell Nanowires Induced by the Oxide Shell. *Materials Science Forum*, **2012**, 717-720, 557-560	0.4	1
14	Cubic SiC Nanowires: Growth, Characterization and Applications **2010**,		2
13	Enhancement of the core near-band-edge emission induced by an amorphous shell in coaxial one-dimensional nanostructure: the case of SiC/SiO2 core/shell self-organized nanowires. *Nanotechnology*, **2010**, 21, 345702	3.4	37
12	TEM and SEM-CL Studies of SiC Nanowires. *Materials Science Forum*, **2010**, 645-648, 387-390	0.4	
11	Effects of single-layer Shockley stacking faults on the transport properties of high-purity semi-insulating 4H□SiC. *Journal of Applied Physics*, **2010**, 108, 013702	2.5	1
10	Investigation of emitting centers in SiO2 codoped with silicon nanoclusters and Er3+ ions by cathodoluminescence technique. *Journal of Applied Physics*, **2010**, 108, 113504	2.5	20
9	Effects of Chemical Treatment on the Luminescence of ZnO. *Journal of Electronic Materials*, **2010**, 39, 761-765	1.9	4

8	Unpredicted nucleation of extended zinc blende phases in wurtzite ZnO nanotetrapod arms. *ACS Nano*, **2009**, 3, 3158-64	16.7	46
7	C-V and DLTS Analyses of Trap-Induced Graded Junctions: The Case of Al+ Implanted JTE p+n 4H-SiC Diodes. *Materials Science Forum*, **2009**, 615-617, 469-472	0.4	
6	A new growth method for the synthesis of 3C□SiC nanowires. *Materials Letters*, **2009**, 63, 2581-2583	3.3	21
5	Electrical activities of stacking faults and partial dislocations in 4H-SiC homoepitaxial films. *Superlattices and Microstructures*, **2009**, 45, 295-300	2.8	7
4	Comparison between cathodoluminescence spectroscopy and capacitance transient spectroscopy on Al+ ion implanted 4H-SiC p+/n diodes. *Superlattices and Microstructures*, **2009**, 45, 383-387	2.8	8
3	Electron-beam-induced current study of stacking faults and partial dislocations in 4H-SiC Schottky diode. *Applied Physics Letters*, **2008**, 93, 033514	3.4	35
2	Cathodoluminescence characterization of □SiC nanowires and surface-related silicon dioxide. *Materials Science in Semiconductor Processing*, **2008**, 11, 179-181	4.3	11
1	Covalent organic functionalization of graphene nanosheets and reduced graphene oxide via 1,3-dipolar cycloaddition of azomethine ylide. *Nanoscale Advances*,	5.1	3