

Filippo Fabbri

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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	Effect of nature and location of defects on bandgap narrowing in black TiO ₂ nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7600-3	16.4	1251
96	Zn vacancy induced green luminescence on non-polar surfaces in ZnO nanostructures. <i>Scientific Reports</i> , 2014 , 4, 5158	4.9	118
95	EGa ₂ O ₃ epilayers as a material for solar-blind UV photodetectors. <i>Materials Chemistry and Physics</i> , 2018 , 205, 502-507	4.4	65
94	Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. <i>Nature Communications</i> , 2020 , 11, 3566	17.4	61
93	Controlling the Surface Energetics and Kinetics of Hematite Photoanodes Through Few Atomic Layers of NiO _x . <i>ACS Catalysis</i> , 2016 , 6, 3619-3628	13.1	60
92	ZnS and ZnO Nanosheets from ZnS(en) _{0.5} Precursor: Nanoscale Structure and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6960-6965	3.8	59
91	Porphyrin conjugated SiC/SiO _x nanowires for X-ray-excited photodynamic therapy. <i>Scientific Reports</i> , 2015 , 5, 7606	4.9	56
90	Novel near-infrared emission from crystal defects in MoS ₂ multilayer flakes. <i>Nature Communications</i> , 2016 , 7, 13044	17.4	47
89	Unpredicted nucleation of extended zinc blende phases in wurtzite ZnO nanotetrapod arms. <i>ACS Nano</i> , 2009 , 3, 3158-64	16.7	46
88	PEDOT:PSS Interfaces Support the Development of Neuronal Synaptic Networks with Reduced Neuroglia Response In vitro. <i>Frontiers in Neuroscience</i> , 2015 , 9, 521	5.1	41
87	Transforming colloidal CsPbBr ₃ nanocrystals with poly(maleic anhydride--1-octadecene) into stable CsPbBr ₃ perovskite emitters through intermediate heterostructures. <i>Chemical Science</i> , 2020 , 11, 3986-3995	17.4	37
86	Enhancement of the core near-band-edge emission induced by an amorphous shell in coaxial one-dimensional nanostructure: the case of SiC/SiO ₂ core/shell self-organized nanowires. <i>Nanotechnology</i> , 2010 , 21, 345702	3.4	37
85	Direct evidence for efficient ultrafast charge separation in epitaxial WS ₂ /graphene heterostructures. <i>Science Advances</i> , 2020 , 6, eaay0761	14.3	35
84	The critical role of intragap states in the energy transfer from gold nanoparticles to TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4864-9	3.6	35
83	Electron-beam-induced current study of stacking faults and partial dislocations in 4H-SiC Schottky diode. <i>Applied Physics Letters</i> , 2008 , 93, 033514	3.4	35
82	Visible and infra-red light emission in boron-doped wurtzite silicon nanowires. <i>Scientific Reports</i> , 2014 , 4, 3603	4.9	34
81	Wafer-Scale Synthesis of Graphene on Sapphire: Toward Fab-Compatible Graphene. <i>Small</i> , 2019 , 15, e1904906	10.4	32

80	Luminescence properties of SiC/SiO ₂ core-shell nanowires with different radial structure. <i>Materials Letters</i> , 2012 , 71, 137-140	3.3	32
79	Mesoporous single-crystal ZnO nanobelts: supported preparation and patterning. <i>Nanoscale</i> , 2013 , 5, 1060-6	7.7	28
78	Preparing the way for doping wurtzite silicon nanowires while retaining the phase. <i>Nano Letters</i> , 2013 , 13, 5900-6	11.5	26
77	Optical and structural properties of Zn _{1-x} Mg _x O ceramic materials. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1501-1509	2.6	25
76	Tuning the radial structure of core-shell silicon carbide nanowires. <i>CrystEngComm</i> , 2015 , 17, 1258-1263	3.3	24
75	Nanoscale mapping of plasmon and exciton in ZnO tetrapods coupled with Au nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 19168	4.9	24
74	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , 2020 , 14, 11190-11204	16.7	24
73	Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , 2021 , 15, 3171-3187	16.7	24
72	Probing the nanoscale light emission properties of a CVD-grown MoS monolayer by tip-enhanced photoluminescence. <i>Nanoscale</i> , 2018 , 10, 14055-14059	7.7	22
71	Graphene Promotes Axon Elongation through Local Stall of Nerve Growth Factor Signaling Endosomes. <i>Nano Letters</i> , 2020 , 20, 3633-3641	11.5	21
70	A new growth method for the synthesis of 3C-SiC nanowires. <i>Materials Letters</i> , 2009 , 63, 2581-2583	3.3	21
69	Investigation of emitting centers in SiO ₂ codoped with silicon nanoclusters and Er ³⁺ ions by cathodoluminescence technique. <i>Journal of Applied Physics</i> , 2010 , 108, 113504	2.5	20
68	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. <i>Nanoscale</i> , 2018 , 10, 4332-4338	7.7	19
67	Optical properties of hybrid T3Pyr/SiO ₂ /3C-SiC nanowires. <i>Nanoscale Research Letters</i> , 2012 , 7, 680	5	18
66	Cold field electron emission of large-area arrays of SiC nanowires: photo-enhancement and saturation effects. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8226-8234	7.1	16
65	Structural, optical and compositional stability of MoS ₂ multi-layer flakes under high dose electron beam irradiation. <i>2D Materials</i> , 2016 , 3, 025024	5.9	16
64	Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , 2020 , 499, 143923	12.3	15
63	Direct Probing of Grain Boundary Resistance in Chemical Vapor Deposition-Grown Monolayer MoS ₂ by Conductive Atomic Force Microscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900393	2.5	15

62	Synthesis of Large-Scale Monolayer 1TSMoTe and Its Stabilization Scalable hBN Encapsulation. <i>ACS Nano</i> , 2021 , 15, 4213-4225	16.7	15
61	Raman investigation of air-stable silicene nanosheets on an inert graphite surface. <i>Nano Research</i> , 2018 , 11, 5879-5889	10	14
60	Carbon-doped SiO(x) nanowires with a large yield of white emission. <i>Nanotechnology</i> , 2014 , 25, 185704	3.4	14
59	S-induced modifications of the optoelectronic properties of ZnO mesoporous nanobelts. <i>Scientific Reports</i> , 2016 , 6, 27948	4.9	13
58	Depth-resolved cathodoluminescence spectroscopy of silicon supersaturated with sulfur. <i>Applied Physics Letters</i> , 2013 , 102, 031909	3.4	13
57	Edge Defects Promoted Oxidation of Monolayer WS ₂ Synthesized on Epitaxial Graphene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9035-9044	3.8	12
56	3CβSiC nanowires luminescent enhancement by coating with a conformal oxides layer. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 394006	3	12
55	Influence of organic promoter gradient on the MoS ₂ growth dynamics. <i>Nanoscale Advances</i> , 2020 , 2, 2352-2362	5.1	12
54	Low-defectiveness exfoliation of MoS nanoparticles and their embedment in hybrid light-emitting polymer nanofibers. <i>Nanoscale</i> , 2018 , 10, 21748-21754	7.7	12
53	Evidence of Native Cs Impurities and MetalInsulator Transition in MoS ₂ Natural Crystals. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600091	6.4	11
52	Visible emission from bismuth-doped yttrium oxide thin films for lighting and display applications. <i>Scientific Reports</i> , 2017 , 7, 17325	4.9	11
51	Cathodoluminescence characterization of βSiC nanowires and surface-related silicon dioxide. <i>Materials Science in Semiconductor Processing</i> , 2008 , 11, 179-181	4.3	11
50	Growth and characterization of βGa ₂ O ₃ nanowires obtained on not-catalyzed and Au/Pt catalyzed substrates. <i>Journal of Crystal Growth</i> , 2017 , 457, 255-261	1.6	10
49	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. <i>ACS Omega</i> , 2019 , 4, 2256-2260	3.9	10
48	Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. <i>Nano Letters</i> , 2020 , 20, 567-576	11.5	10
47	Scanning tunneling microscopy and Raman evidence of silicene nanosheets intercalated into graphite surfaces at room temperature. <i>Nanoscale</i> , 2019 , 11, 6145-6152	7.7	9
46	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. <i>Carbon</i> , 2019 , 145, 345-351	10.4	9
45	Functionalization of SiC/SiO _x nanowires with a porphyrin derivative: a hybrid nanosystem for X-ray induced singlet oxygen generation. <i>Molecular Systems Design and Engineering</i> , 2017 , 2, 165-172	4.6	8

44	Effects of Growth Parameters on SiC/SiO ₂ Core/Shell Nanowires Radial Structures. <i>Materials Science Forum</i> , 2013 , 740-742, 494-497	0.4	8
43	Comparison between cathodoluminescence spectroscopy and capacitance transient spectroscopy on Al ⁺ ion implanted 4H-SiC p+/n diodes. <i>Superlattices and Microstructures</i> , 2009 , 45, 383-387	2.8	8
42	Lineage-Specific Commitment of Stem Cells with Organic and Graphene Oxide Functionalized Nanofibers. <i>Advanced Functional Materials</i> , 2019 , 29, 1806694	15.6	8
41	Deterministic direct growth of WS ₂ on CVD graphene arrays. <i>2D Materials</i> , 2020 , 7, 014002	5.9	8
40	Multicolor Depth-Resolved Cathodoluminescence from Eu-Doped SiOC Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18201-5	9.5	7
39	Photoelectrochemical properties of ZnO nanorods decorated with Cu and Cu ₂ O nanoparticles. <i>Superlattices and Microstructures</i> , 2014 , 72, 253-261	2.8	7
38	Structural and luminescence properties of HfO ₂ nanocrystals grown by atomic layer deposition on SiC/SiO ₂ core/shell nanowires. <i>Scripta Materialia</i> , 2013 , 69, 744-747	5.6	7
37	Electrical activities of stacking faults and partial dislocations in 4H-SiC homoepitaxial films. <i>Superlattices and Microstructures</i> , 2009 , 45, 295-300	2.8	7
36	Optical dielectric function of two-dimensional WS ₂ on epitaxial graphene. <i>2D Materials</i> , 2020 , 7, 025024	5.9	6
35	Ion irradiation induced formation of CdO microcrystals on CdTe surfaces. <i>Materials Letters</i> , 2013 , 92, 397-400	3.3	6
34	Origin of the visible emission of black silicon microstructures. <i>Applied Physics Letters</i> , 2015 , 107, 021907	3.4	5
33	Local tuning of WS ₂ photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. <i>Applied Physics Letters</i> , 2019 , 115, 183101	3.4	5
32	Thermal Processing and Characterizations of Dye-Sensitized Solar Cells Based on Nanostructured TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3729-3738	3.8	5
31	Morphological and structural properties of neutron-irradiated B ₁₂ C ₃ boron carbide microcrystals. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017 , 25, 585-588	1.8	5
30	Gold nanoparticle assisted synthesis of MoS ₂ monolayers by chemical vapor deposition. <i>Nanoscale Advances</i> , 2021 , 3, 4826-4833	5.1	5
29	A sensitive calorimetric technique to study energy (heat) exchange at the nano-scale. <i>Nanoscale</i> , 2018 , 10, 10079-10086	7.7	4
28	Effects of Chemical Treatment on the Luminescence of ZnO. <i>Journal of Electronic Materials</i> , 2010 , 39, 761-765	1.9	4
27	Assembly of Pt Nanoparticles on Graphitized Carbon Nanofibers as Hierarchically Structured Electrodes. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9880-9888	5.6	4

26	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021 , 32, 155504	3.4	4
25	Microscopic Understanding of Ultrafast Charge Transfer in van der Waals Heterostructures.. <i>Physical Review Letters</i> , 2021 , 127, 276401	7.4	4
24	Titanium Dioxide Nanowires Grown on Titanium Disks Create a Nanostructured Surface with Improved Osteogenic Potential. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 4665-4670	1.3	3
23	Synthesis and enhanced effect of vanadium on structural and optical properties of zinc oxide. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	3
22	4H-SiC band structure investigated by surface photovoltage spectroscopy. <i>Acta Materialia</i> , 2012 , 60, 3350-3354	8.4	3
21	Effect of Chemical Vapor Deposition WS on Viability and Differentiation of SH-SY5Y Cells. <i>Frontiers in Neuroscience</i> , 2020 , 14, 592502	5.1	3
20	Raman, FT-IR spectroscopy and morphology of carbon dust from carbon arc in liquid benzene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018 , 26, 654-660	1.8	3
19	Covalent organic functionalization of graphene nanosheets and reduced graphene oxide via 1,3-dipolar cycloaddition of azomethine ylide. <i>Nanoscale Advances</i> ,	5.1	3
18	Cathodoluminescence of Self-assembled Nanosystems 2013 , 557-601		2
17	Cubic SiC Nanowires: Growth, Characterization and Applications 2010 ,		2
16	Silicon Carbide-Based Nanowires for Biomedical Applications 2016 , 311-342		2
15	Thermal stability of monolayer WS ₂ in BEOL conditions. <i>JPhys Materials</i> , 2021 , 4, 024002	4.2	2
14	Ultrafast hot carrier transfer in WS ₂ /graphene large area heterostructures. <i>Npj 2D Materials and Applications</i> , 2022 , 6,	8.8	2
13	Effects of single-layer Shockley stacking faults on the transport properties of high-purity semi-insulating 4H-SiC. <i>Journal of Applied Physics</i> , 2010 , 108, 013702	2.5	1
12	Selective SiC/SiO ₂ Core-Shell NW Growth on Patterned Silicon Substrate. <i>Materials Science Forum</i> , 2012 , 711, 75-79	0.4	1
11	Emission Enhancement of SiC/SiO ₂ Core/Shell Nanowires Induced by the Oxide Shell. <i>Materials Science Forum</i> , 2012 , 717-720, 557-560	0.4	1
10	Cubic Silicon Carbide Nanowires. <i>Carbon Materials</i> , 2015 , 101-129		1
9	High-temperature nitrogen annealing induced bonding states and photoluminescence changes in inductively coupled plasma torch synthesized silicon nanostructures. <i>Journal of Applied Physics</i> , 2020 , 128, 024302	2.5	1

8	Ultrafast Charge Separation in Bilayer WS ₂ /Graphene Heterostructure Revealed by Time- and Angle-Resolved Photoemission Spectroscopy. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	1
7	Thrombin Assessment on Nanostructured Label-Free Aptamer-Based Sensors: A Mapping Investigation via Surface-Enhanced Raman Spectroscopy. <i>BioMed Research International</i> , 2018 , 2018, 5293672	3	1
6	3D arrangement of epitaxial graphene conformally grown on porousified crystalline SiC. <i>Carbon</i> , 2022 , 189, 210-218	10.4	0
5	Deterministic synthesis of Cu ₉ S ₅ flakes assisted by single-layer graphene arrays. <i>Nanoscale Advances</i> , 2021 , 3, 1352-1361	5.1	0
4	Low Growth Temperature MOCVD InGaP for Multi-junction Solar Cells. <i>Energy Procedia</i> , 2015 , 84, 34-40	2.3	
3	TEM and SEM-CL Studies of SiC Nanowires. <i>Materials Science Forum</i> , 2010 , 645-648, 387-390	0.4	
2	C-V and DLTS Analyses of Trap-Induced Graded Junctions: The Case of Al ⁺ Implanted JTE p+n 4H-SiC Diodes. <i>Materials Science Forum</i> , 2009 , 615-617, 469-472	0.4	
1	Evaluating the plasmon-exciton interaction in ZnO tetrapods coupled with gold nanostructures by nanoscale cathodoluminescence. <i>Nano Express</i> , 2021 , 2, 014004	2	