Francesco Scotognella

List of Publications by Year
in descending order

73 papers	2,794 citations	185998 28 h-index	182168 51 g-index
78 all docs	78 docs citations	78 times ranked	4057 citing authors

#	Article	IF	Citations
1	Excited states engineering enables efficient near-infrared lasing in nanographenes. Materials Horizons, 2022, 9, 393-402.	6.4	12
2	Modelling and fabrication of one-dimensional flexible multilayer photonic crystals based on polymers and inorganic materials. Optical Materials, 2022, 123, 111859.	1.7	5
3	Effective medium optical modelling of indium tin oxide nanocrystal films. Physical Chemistry Chemical Physics, 2022, 24, 5317-5322.	1.3	4
4	Deciphering Photoinduced Charge Transfer Dynamics in a Cross-Linked Grapheneâ€“Dye Nanohybrid. Journal of Physical Chemistry C, 2022, 126, 3569-3581.	1.5	0
5	A Polymer Blend Substrate for Skeletal Muscle Cells Alignment and Photostimulation. Advanced Photonics Research, 2021, 2, 2000103.	1.7	10
6	Stimuli-Responsive Photonic Crystals. Applied Sciences (Switzerland), 2021, 11, 2119.	1.3	13
7	Bringing the interaction of silver nanoparticles with bacteria to light. Biophysics Reviews, 2021, 2, 021304.	1.0	5
8	The impact of bacteria exposure on the plasmonic response of silver nanostructured surfaces. Chemical Physics Reviews, 2021, 2, .	2.6	8
9	Nearâ€Infrared Lasing in Fourâ€Zigzag Edged Nanographenes by 1D versus 2D Electronic ï€â€Conjugation. Advanced Functional Materials, 2021, 31, 2105073.	7.8	25
10	Removal of cross-phase modulation artifacts in ultrafast pumpâ€“probe dynamics by deep learning. APL Photonics, 2021, 6, .	3.0	10
11	Large Polycyclic Aromatic Hydrocarbons as Graphene Quantum Dots: from Synthesis to Spectroscopy and Photonics. Advanced Optical Materials, 2021, 9, 2100508.	3.6	18
12	Engineering of the spin on dopant process on silicon on insulator substrate. Nanotechnology, 2021, 32, 025303.	1.3	9
13	MaPBI3 and 2D hybrid organic-inorganic perovskite based microcavities employing periodic, aperiodic, and disordered photonic structures with light-induced tuning possibility. Optical Materials: X, 2021, 12, 100105.	0.3	0
14	Large Polycyclic Aromatic Hydrocarbons as Graphene Quantum Dots: from Synthesis to Spectroscopy and Photonics (Advanced Optical Materials 23/2021). Advanced Optical Materials, 2021, 9, 2170095.	3.6	0
15	Calculated optical properties of donor molecules based on benzo[1,2-b:4,5-bâ€²]dithiophene and its derivatives. AIP Advances, 2021, 11, 125001.	0.6	0
16	Colloidal Bi-Doped Cs₂Ag_{1â€“x}Na_xInCl₆ Nanocrystals: Undercoordinated Surface Cl Ions Limit their Light Emission Efficiency. , 2020, 2, 1442-1449.		41
17	Distributed Bragg reflectors for the colorimetric detection of bacterial contaminants and pollutants for food quality control. APL Photonics, 2020, 5, 080901.	3.0	16
18	Hexa-peri-benzocoronene with two extra K-regions in an ortho-configuration. Chemical Science, 2020, 11, 12816-12821.	3.7	10

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19	Electro-responsivity in electrolyte-free and solution processed Bragg stacks. Journal of Materials Chemistry C, 2020, 8, 13019-13024.	2.7	12
20	Design of 1D photonic crystals for colorimetric and ratiometric refractive index sensing. Optical Materials: X, 2020, 8, 100058.	0.3	4
21	Dual Amplified Spontaneous Emission and Lasing from Nanographene Films. Nanomaterials, 2020, 10, 1525.	1.9	14
22	Anisotropic Complex Refractive Indices of Atomically Thin Materials: Determination of the Optical Constants of Few-Layer Black Phosphorus. Materials, 2020, 13, 5736.	1.3	6
23	Optical properties of recent non-fullerene molecular acceptors for bulk heterojunction solar cells. Results in Physics, 2020, 19, 103633.	2.0	2
24	Large scale indium tin oxide (ITO) one dimensional gratings for ultrafast signal modulation in the visible spectral region. Physical Chemistry Chemical Physics, 2020, 22, 6881-6887.	1.3	11
25	Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. Faraday Discussions, 2020, 223, 125-135.	1.6	14
26	Ultrafast photochromism and bacteriochromism in one dimensional hybrid plasmonic photonic structures. , 2020, , .		2
27	Coherent emission from fully Er3+ doped monolithic 1-D dielectric microcavity fabricated by rf-sputtering. Optical Materials, 2019, 87, 107-111.	1.7	27
28	Hybrid One-Dimensional Plasmonicâ€“Photonic Crystals for Optical Detection of Bacterial Contaminants. Journal of Physical Chemistry Letters, 2019, 10, 4980-4986.	2.1	50
29	Indium Tin Oxide Nanoparticle: TiO2: Air Layers for One-Dimensional Multilayer Photonic Structures. Applied Sciences (Switzerland), 2019, 9, 2564.	1.3	5
30	Ï€-Extended Pyrene-Fused Double [7]Carbohelicene as a Chiral Polycyclic Aromatic Hydrocarbon. Journal of the American Chemical Society, 2019, 141, 12797-12803.	6.6	113
31	Regioselective Hydrogenation of a 60-Carbon Nanographene Molecule toward a Circumbiphenyl Core. Journal of the American Chemical Society, 2019, 141, 4230-4234.	6.6	9
32	Pumpâ€“Pushâ€“Probe for Ultrafast Allâ€Optical Switching: The Case of a Nanographene Molecule. Advanced Functional Materials, 2019, 29, 1805249.	7.8	34
33	Solution processable and optically switchable 1D photonic structures. Scientific Reports, 2018, 8, 3517.	1.6	38
34	Excited state photophysics of squaraine dyes for photovoltaic applications: an alternative deactivation scenario. Journal of Materials Chemistry C, 2018, 6, 2778-2785.	2.7	25
35	Hybrid Photonic Nanostructures by In Vivo Incorporation of an Organic Fluorophore into Diatom Algae. Advanced Functional Materials, 2018, 28, 1706214.	7.8	31
36	Room-Temperature Low-Threshold Lasing from Monolithically Integrated Nanostructured Porous Silicon Hybrid Microcavities. ACS Nano, 2018, 12, 4536-4544.	7.3	51

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37	Light-induced switching in pDTEâ€“FICO 1D photonic structures. Optics Communications, 2018, 410, 703-706.	1.0	4
38	Modulation of the Nonlinear Optical Properties of Dibenzo[hi,st]ovalene by Peripheral Substituents. Journal of Physical Chemistry C, 2018, 122, 25007-25013.	1.5	23
39	Continuous-wave upconverting nanoparticle microlasers. Nature Nanotechnology, 2018, 13, 572-577.	15.6	188
40	Electro-optic and magneto-optic photonic devices based on multilayer photonic structures. Journal of Photonics for Energy, 2018, 8, 1.	0.8	29
41	Structural color tuning in a Ag/TiO₂ nanoparticle one-dimensional photonic crystal induced by electric field. Proceedings of SPIE, 2017, , .	0.8	0
42	Plasmonic doped semiconductor nanocrystals: Properties, fabrication, applications and perspectives. Physics Reports, 2017, 674, 1-52.	10.3	252
43	Synthesis of Dibenzo[hi,st]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. Angewandte Chemie - International Edition, 2017, 56, 6753-6757.	7.2	72
44	Simultaneous Tenfold Brightness Enhancement and Emittedâ€Light Spectral Tunability in Transparent Ambipolar Organic Lightâ€Emitting Transistor by Integration of Highâ€k Photonic Crystal. Advanced Functional Materials, 2017, 27, 1605164.	7.8	45
45	Near-infrared emitting single squaraine dye aggregates with large Stokes shifts. Journal of Materials Chemistry C, 2017, 5, 7732-7738.	2.7	32
46	Synthesis of Dibenzo[hi,st]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. Angewandte Chemie, 2017, 129, 6857-6861.	1.6	18
47	Optical properties of periodic, quasi-periodic, and disordered one-dimensional photonic structures. Optical Materials, 2017, 72, 403-421.	1.7	120
48	Electric field induced structural colour tuning of a silver/titanium dioxide nanoparticle one-dimensional photonic crystal. Beilstein Journal of Nanotechnology, 2016, 7, 1404-1410.	1.5	25
49	Highly integrated lab-on-a-chip for fluorescence detection. Optical Engineering, 2016, 55, 097102.	0.5	8
50	Ultrafast Photodoping and Plasmon Dynamics in Fluorineâ€“Indium Codoped Cadmium Oxide Nanocrystals for All-Optical Signal Manipulation at Optical Communication Wavelengths. Journal of Physical Chemistry Letters, 2016, 7, 3873-3881.	2.1	46
51	Charge Photogeneration in Fewâ€Layer MoS₂. Advanced Functional Materials, 2015, 25, 3351-3358.	7.8	76
52	High energetic excitons in carbon nanotubes directly probe charge-carriers. Scientific Reports, 2015, 5, 9681.	1.6	30
53	Plasmonic Heavily-Doped Semiconductor Nanocrystal Dielectrics: Making Static Photonic Crystals Dynamic. Journal of Physical Chemistry C, 2015, 119, 2775-2782.	1.5	14
54	Cu_{3-x}P Nanocrystals as a Material Platform for Near-Infrared Plasmonics and Cation Exchange Reactions. Chemistry of Materials, 2015, 27, 1120-1128.	3.2	137

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55	Metal oxide one dimensional photonic crystals made by RF sputtering and spin coating. Ceramics International, 2015, 41, 8655-8659.	2.3	30
56	Field-Induced Stimulated Emission in a Polymerâ€“Liquid Crystal Mixture. Journal of Physical Chemistry C, 2015, 119, 23632-23637.	1.5	2
57	One dimensional disordered photonic structures characterized by uniform distributions of clusters. Optical Materials, 2015, 39, 235-238.	1.7	23
58	Disorder in Photonic Structures Induced by Random Layer Thickness. Science of Advanced Materials, 2015, 7, 1207-1212.	0.1	42
59	Self-Assembled Hierarchical Nanostructures for High-Efficiency Porous Photonic Crystals. ACS Nano, 2014, 8, 12167-12174.	7.3	71
60	Lasing from all-polymer microcavities. Laser Physics Letters, 2014, 11, 035804.	0.6	65
61	Infiltration of E7 Liquid Crystal in a Nanoparticle-Based Multilayer Photonic Crystal: Fabrication and Electro-optical Characterization. Molecular Crystals and Liquid Crystals, 2013, 572, 31-39.	0.4	13
62	Plasmonics in heavily-doped semiconductor nanocrystals. European Physical Journal B, 2013, 86, 1.	0.6	76
63	Ultrafast Charge Photogeneration in Semiconducting Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 10849-10855.	1.5	33
64	Low-Voltage Tuning in a Nanoparticle/Liquid Crystal Photonic Structure. Journal of Physical Chemistry C, 2012, 116, 21572-21576.	1.5	37
65	Four-material one dimensional photonic crystals. Optical Materials, 2012, 34, 1610-1613.	1.7	16
66	Light transmission behaviour as a function of the homogeneity in one dimensional photonic crystals. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 126-130.	1.0	10
67	Two-Photon Poly(phenylenevinylene) DFB Laser. Chemistry of Materials, 2011, 23, 805-809.	3.2	36
68	Plasmon Dynamics in Colloidal Cu_{2â€“x}Se Nanocrystals. Nano Letters, 2011, 11, 4711-4717.	4.5	158
69	DFB laser action in a flexible fully plastic multilayer. Physical Chemistry Chemical Physics, 2010, 12, 337-340.	1.3	40
70	Distributed Feedback Lasing from a Composite Poly(phenylene vinylene)â^'Nanoparticle One-Dimensional Photonic Crystal. Nano Letters, 2009, 9, 4273-4278.	4.5	48
71	Stacking the Nanochemistry Deck: Structural and Compositional Diversity in Oneâ€Dimensional Photonic Crystals. Advanced Materials, 2009, 21, 1641-1646.	11.1	223
72	Nanoparticle Oneâ€Dimensional Photonicâ€Crystal Dye Laser. Small, 2009, 5, 2048-2052.	5.2	85

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73	One Dimensional Polymeric Organic Photonic Crystals for DFB Lasers. International Journal of Photoenergy, 2008, 2008, 1-4.	1.4	33