

Francesco Scotognella

List of Publications by Year in descending order

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73
papers

2,794
citations

185998

28
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182168

51
g-index

78
all docs

78
docs citations

78
times ranked

4057
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Plasmonic doped semiconductor nanocrystals: Properties, fabrication, applications and perspectives. <i>Physics Reports</i> , 2017, 674, 1-52. | 10.3 | 252 |
| 2 | Stacking the Nanochemistry Deck: Structural and Compositional Diversity in One-Dimensional Photonic Crystals. <i>Advanced Materials</i> , 2009, 21, 1641-1646. | 11.1 | 223 |
| 3 | Continuous-wave upconverting nanoparticle microlasers. <i>Nature Nanotechnology</i> , 2018, 13, 572-577. | 15.6 | 188 |
| 4 | Plasmon Dynamics in Colloidal Cu ₂ Se Nanocrystals. <i>Nano Letters</i> , 2011, 11, 4711-4717. | 4.5 | 158 |
| 5 | Cu ₃ P Nanocrystals as a Material Platform for Near-Infrared Plasmonics and Cation Exchange Reactions. <i>Chemistry of Materials</i> , 2015, 27, 1120-1128. | 3.2 | 137 |
| 6 | Optical properties of periodic, quasi-periodic, and disordered one-dimensional photonic structures. <i>Optical Materials</i> , 2017, 72, 403-421. | 1.7 | 120 |
| 7 | Ë-Extended Pyrene-Fused Double [7]Carbohelicene as a Chiral Polycyclic Aromatic Hydrocarbon. <i>Journal of the American Chemical Society</i> , 2019, 141, 12797-12803. | 6.6 | 113 |
| 8 | Nanoparticle One-Dimensional Photonic Crystal Dye Laser. <i>Small</i> , 2009, 5, 2048-2052. | 5.2 | 85 |
| 9 | Plasmonics in heavily-doped semiconductor nanocrystals. <i>European Physical Journal B</i> , 2013, 86, 1. | 0.6 | 76 |
| 10 | Charge Photogeneration in Few-Layer MoS ₂ . <i>Advanced Functional Materials</i> , 2015, 25, 3351-3358. | 7.8 | 76 |
| 11 | Synthesis of Dibenzo[<i>hi, st</i>]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6753-6757. | 7.2 | 72 |
| 12 | Self-Assembled Hierarchical Nanostructures for High-Efficiency Porous Photonic Crystals. <i>ACS Nano</i> , 2014, 8, 12167-12174. | 7.3 | 71 |
| 13 | Lasing from all-polymer microcavities. <i>Laser Physics Letters</i> , 2014, 11, 035804. | 0.6 | 65 |
| 14 | Room-Temperature Low-Threshold Lasing from Monolithically Integrated Nanostructured Porous Silicon Hybrid Microcavities. <i>ACS Nano</i> , 2018, 12, 4536-4544. | 7.3 | 51 |
| 15 | Hybrid One-Dimensional Plasmonic Photonic Crystals for Optical Detection of Bacterial Contaminants. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4980-4986. | 2.1 | 50 |
| 16 | Distributed Feedback Lasing from a Composite Poly(phenylene vinylene) Nanoparticle One-Dimensional Photonic Crystal. <i>Nano Letters</i> , 2009, 9, 4273-4278. | 4.5 | 48 |
| 17 | Ultrafast Photodoping and Plasmon Dynamics in Fluorine-Indium Codoped Cadmium Oxide Nanocrystals for All-Optical Signal Manipulation at Optical Communication Wavelengths. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3873-3881. | 2.1 | 46 |
| 18 | Simultaneous Tenfold Brightness Enhancement and Emitted Light Spectral Tunability in Transparent Ambipolar Organic Light-Emitting Transistor by Integration of High-k Photonic Crystal. <i>Advanced Functional Materials</i> , 2017, 27, 1605164. | 7.8 | 45 |

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|----|--|-----|-----------|
| 19 | Disorder in Photonic Structures Induced by Random Layer Thickness. <i>Science of Advanced Materials</i> , 2015, 7, 1207-1212. | 0.1 | 42 |
| 20 | Colloidal Bi-Doped Cs ₂ Ag ₁ Na ₆ InCl ₆ Nanocrystals: Undercoordinated Surface Cl Ions Limit their Light Emission Efficiency. , 2020, 2, 1442-1449. | | 41 |
| 21 | DFB laser action in a flexible fully plastic multilayer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 337-340. | 1.3 | 40 |
| 22 | Solution processable and optically switchable 1D photonic structures. <i>Scientific Reports</i> , 2018, 8, 3517. | 1.6 | 38 |
| 23 | Low-Voltage Tuning in a Nanoparticle/Liquid Crystal Photonic Structure. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21572-21576. | 1.5 | 37 |
| 24 | Two-Photon Poly(phenylenevinylene) DFB Laser. <i>Chemistry of Materials</i> , 2011, 23, 805-809. | 3.2 | 36 |
| 25 | Pump-Probe for Ultrafast All-Optical Switching: The Case of a Nanographene Molecule. <i>Advanced Functional Materials</i> , 2019, 29, 1805249. | 7.8 | 34 |
| 26 | One Dimensional Polymeric Organic Photonic Crystals for DFB Lasers. <i>International Journal of Photoenergy</i> , 2008, 2008, 1-4. | 1.4 | 33 |
| 27 | Ultrafast Charge Photogeneration in Semiconducting Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10849-10855. | 1.5 | 33 |
| 28 | Near-infrared emitting single squaraine dye aggregates with large Stokes shifts. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7732-7738. | 2.7 | 32 |
| 29 | Hybrid Photonic Nanostructures by In Vivo Incorporation of an Organic Fluorophore into Diatom Algae. <i>Advanced Functional Materials</i> , 2018, 28, 1706214. | 7.8 | 31 |
| 30 | High energetic excitons in carbon nanotubes directly probe charge-carriers. <i>Scientific Reports</i> , 2015, 5, 9681. | 1.6 | 30 |
| 31 | Metal oxide one dimensional photonic crystals made by RF sputtering and spin coating. <i>Ceramics International</i> , 2015, 41, 8655-8659. | 2.3 | 30 |
| 32 | Electro-optic and magneto-optic photonic devices based on multilayer photonic structures. <i>Journal of Photonics for Energy</i> , 2018, 8, 1. | 0.8 | 29 |
| 33 | Coherent emission from fully Er ³⁺ doped monolithic 1-D dielectric microcavity fabricated by rf-sputtering. <i>Optical Materials</i> , 2019, 87, 107-111. | 1.7 | 27 |
| 34 | Electric field induced structural colour tuning of a silver/titanium dioxide nanoparticle one-dimensional photonic crystal. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1404-1410. | 1.5 | 25 |
| 35 | Excited state photophysics of squaraine dyes for photovoltaic applications: an alternative deactivation scenario. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2778-2785. | 2.7 | 25 |
| 36 | Near-Infrared Lasing in Four-Zigzag Edged Nanographenes by 1D versus 2D Electronic Conjugation. <i>Advanced Functional Materials</i> , 2021, 31, 2105073. | 7.8 | 25 |

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|----|--|-----|-----------|
| 37 | One dimensional disordered photonic structures characterized by uniform distributions of clusters. <i>Optical Materials</i> , 2015, 39, 235-238. | 1.7 | 23 |
| 38 | Modulation of the Nonlinear Optical Properties of Dibenzo[<i>hi, st</i>]ovalene by Peripheral Substituents. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25007-25013. | 1.5 | 23 |
| 39 | Synthesis of Dibenzo[<i>hi, st</i>]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie</i> , 2017, 129, 6857-6861. | 1.6 | 18 |
| 40 | Large Polycyclic Aromatic Hydrocarbons as Graphene Quantum Dots: from Synthesis to Spectroscopy and Photonics. <i>Advanced Optical Materials</i> , 2021, 9, 2100508. | 3.6 | 18 |
| 41 | Four-material one dimensional photonic crystals. <i>Optical Materials</i> , 2012, 34, 1610-1613. | 1.7 | 16 |
| 42 | Distributed Bragg reflectors for the colorimetric detection of bacterial contaminants and pollutants for food quality control. <i>APL Photonics</i> , 2020, 5, 080901. | 3.0 | 16 |
| 43 | Plasmonic Heavily-Doped Semiconductor Nanocrystal Dielectrics: Making Static Photonic Crystals Dynamic. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2775-2782. | 1.5 | 14 |
| 44 | Dual Amplified Spontaneous Emission and Lasing from Nanographene Films. <i>Nanomaterials</i> , 2020, 10, 1525. | 1.9 | 14 |
| 45 | Integration of bio-responsive silver in 1D photonic crystals: towards the colorimetric detection of bacteria. <i>Faraday Discussions</i> , 2020, 223, 125-135. | 1.6 | 14 |
| 46 | Infiltration of E7 Liquid Crystal in a Nanoparticle-Based Multilayer Photonic Crystal: Fabrication and Electro-optical Characterization. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 572, 31-39. | 0.4 | 13 |
| 47 | Stimuli-Responsive Photonic Crystals. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2119. | 1.3 | 13 |
| 48 | Electro-responsivity in electrolyte-free and solution processed Bragg stacks. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13019-13024. | 2.7 | 12 |
| 49 | Excited states engineering enables efficient near-infrared lasing in nanographenes. <i>Materials Horizons</i> , 2022, 9, 393-402. | 6.4 | 12 |
| 50 | Large scale indium tin oxide (ITO) one dimensional gratings for ultrafast signal modulation in the visible spectral region. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6881-6887. | 1.3 | 11 |
| 51 | Light transmission behaviour as a function of the homogeneity in one dimensional photonic crystals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 126-130. | 1.0 | 10 |
| 52 | Hexa-peri-benzocoronene with two extra K-regions in an ortho-configuration. <i>Chemical Science</i> , 2020, 11, 12816-12821. | 3.7 | 10 |
| 53 | A Polymer Blend Substrate for Skeletal Muscle Cells Alignment and Photostimulation. <i>Advanced Photonics Research</i> , 2021, 2, 2000103. | 1.7 | 10 |
| 54 | Removal of cross-phase modulation artifacts in ultrafast pump-probe dynamics by deep learning. <i>APL Photonics</i> , 2021, 6, . | 3.0 | 10 |

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|----|--|-----|-----------|
| 55 | Regioselective Hydrogenation of a 60-Carbon Nanographene Molecule toward a Circumbiphenyl Core. <i>Journal of the American Chemical Society</i> , 2019, 141, 4230-4234. | 6.6 | 9 |
| 56 | Engineering of the spin on dopant process on silicon on insulator substrate. <i>Nanotechnology</i> , 2021, 32, 025303. | 1.3 | 9 |
| 57 | Highly integrated lab-on-a-chip for fluorescence detection. <i>Optical Engineering</i> , 2016, 55, 097102. | 0.5 | 8 |
| 58 | The impact of bacteria exposure on the plasmonic response of silver nanostructured surfaces. <i>Chemical Physics Reviews</i> , 2021, 2, . | 2.6 | 8 |
| 59 | Anisotropic Complex Refractive Indices of Atomically Thin Materials: Determination of the Optical Constants of Few-Layer Black Phosphorus. <i>Materials</i> , 2020, 13, 5736. | 1.3 | 6 |
| 60 | Indium Tin Oxide Nanoparticle: TiO ₂ : Air Layers for One-Dimensional Multilayer Photonic Structures. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2564. | 1.3 | 5 |
| 61 | Bringing the interaction of silver nanoparticles with bacteria to light. <i>Biophysics Reviews</i> , 2021, 2, 021304. | 1.0 | 5 |
| 62 | Modelling and fabrication of one-dimensional flexible multilayer photonic crystals based on polymers and inorganic materials. <i>Optical Materials</i> , 2022, 123, 111859. | 1.7 | 5 |
| 63 | Light-induced switching in pDTE@FICO 1D photonic structures. <i>Optics Communications</i> , 2018, 410, 703-706. | 1.0 | 4 |
| 64 | Design of 1D photonic crystals for colorimetric and ratiometric refractive index sensing. <i>Optical Materials: X</i> , 2020, 8, 100058. | 0.3 | 4 |
| 65 | Effective medium optical modelling of indium tin oxide nanocrystal films. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5317-5322. | 1.3 | 4 |
| 66 | Field-Induced Stimulated Emission in a Polymer@Liquid Crystal Mixture. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23632-23637. | 1.5 | 2 |
| 67 | Optical properties of recent non-fullerene molecular acceptors for bulk heterojunction solar cells. <i>Results in Physics</i> , 2020, 19, 103633. | 2.0 | 2 |
| 68 | Ultrafast photochromism and bacteriochromism in one dimensional hybrid plasmonic photonic structures. , 2020, , . | | 2 |
| 69 | Structural color tuning in a Ag/TiO ₂ nanoparticle one-dimensional photonic crystal induced by electric field. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 0 |
| 70 | MaPBI3 and 2D hybrid organic-inorganic perovskite based microcavities employing periodic, aperiodic, and disordered photonic structures with light-induced tuning possibility. <i>Optical Materials: X</i> , 2021, 12, 100105. | 0.3 | 0 |
| 71 | Large Polycyclic Aromatic Hydrocarbons as Graphene Quantum Dots: from Synthesis to Spectroscopy and Photonics (Advanced Optical Materials 23/2021). <i>Advanced Optical Materials</i> , 2021, 9, 2170095. | 3.6 | 0 |
| 72 | Calculated optical properties of donor molecules based on benzo[1,2-b:4,5-b']dithiophene and its derivatives. <i>AIP Advances</i> , 2021, 11, 125001. | 0.6 | 0 |

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|----|--|-----|-----------|
| 73 | Deciphering Photoinduced Charge Transfer Dynamics in a Cross-Linked Graphene-Dye Nanohybrid. Journal of Physical Chemistry C, 2022, 126, 3569-3581. | 1.5 | 0 |