

# Francesco Quochi

## List of Publications by Year in descending order

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117  
papers

4,162  
citations

117625

34  
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118850

62  
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117  
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117  
docs citations

117  
times ranked

6198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of radiative decay rates in metal halide perovskites. <i>Energy and Environmental Science</i> , 2022, 15, 1211-1221.	30.8	7
2	Reversible tuning of luminescence and magnetism in a structurally flexible erbium(III)-anilate MOF. <i>Chemical Science</i> , 2022, 13, 7419-7428.	7.4	15
3	Silicon-based fluorescent platforms for copper(II) detection in water. <i>RSC Advances</i> , 2021, 11, 15557-15564.	3.6	6
4	Polaron Plasma in Equilibrium with Bright Excitons in 2D and 3D Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2100295.	7.3	14
5	Long-lived electrets and lack of ferroelectricity in methylammonium lead bromide $\text{CH}_3\text{NH}_3\text{PbBr}_3$ ferroelastic single crystals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3233-3245.	2.8	7
6	Photoluminescence emission induced by localized states in halide-passivated colloidal two-dimensional $\text{WS}_2$ nanoflakes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2398-2407.	5.5	3
7	Combined Experimental/Theoretical Study on the Luminescent Properties of Homoleptic/Heteroleptic Erbium(III) Anilate-Based 2D Coordination Polymers. <i>Inorganic Chemistry</i> , 2021, 60, 17765-17774.	4.0	8
8	Heteroleptic NIR-Emitting $\text{Yb}^{\text{III}}$ /Anilate-Based Neutral Coordination Polymer Nanosheets for Solvent Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 94-104.	5.0	29
9	X-ray detection by direct modulation of losses in a laser cavity. <i>Applied Physics Letters</i> , 2020, 117, 234101.	3.3	0
10	Ag/In lead-free double perovskites. <i>EcoMat</i> , 2020, 2, e12017.	11.9	16
11	Hydrophilicity and Water Contact Angle on Methylammonium Lead Iodide. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801173.	3.7	43
12	Layered Germanium Hybrid Perovskite Bromides: Insights from Experiments and First-Principles Calculations. <i>Advanced Functional Materials</i> , 2019, 29, 1903528.	14.9	26
13	Bifacial Diffuse Absorptance of Semitransparent Microstructured Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10021-10027.	8.0	10
14	The role of excitons in 3D and 2D lead halide perovskites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12006-12018.	5.5	80
15	Perovskite Excitonics: Primary Exciton Creation and Crossover from Free Carriers to a Secondary Exciton Phase. <i>Advanced Optical Materials</i> , 2018, 6, 1700839.	7.3	36
16	Direct or Indirect Bandgap in Hybrid Lead Halide Perovskites?. <i>Advanced Optical Materials</i> , 2018, 6, 1701254.	7.3	54
17	A convenient preparation of nano-powders of $\text{Y}_2\text{O}_3$ , $\text{Y}_3\text{Al}_5\text{O}_{12}$ and $\text{Nd}:\text{Y}_3\text{Al}_5\text{O}_{12}$ and study of the photoluminescent emission properties of the neodymium doped oxide. <i>Inorganica Chimica Acta</i> , 2018, 470, 149-157.	2.4	7
18	Nanosheets of Two-Dimensional Neutral Coordination Polymers Based on Near-Infrared-Emitting Lanthanides and a Chlorocyananilate Ligand. <i>Chemistry of Materials</i> , 2018, 30, 6575-6586.	6.7	36

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19	Self-Assembled Lead Halide Perovskite Nanocrystals in a Perovskite Matrix. ACS Energy Letters, 2017, 2, 769-775.	17.4	15
20	Optical determination of Shockley-Read-Hall and interface recombination currents in hybrid perovskites. Scientific Reports, 2017, 7, 44629.	3.3	175
21	Doping porous silicon with erbium: pores filling as a method to limit the Er-clustering effects and increasing its light emission. Scientific Reports, 2017, 7, 5957.	3.3	12
22	Perovskites photophysics: Half-organic, half-inorganic and a quarter of magic. , 2017, , .		0
23	Ultrafast Optical Spectroscopy Techniques Applied to Colloidal Nanocrystals. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 483-485.	0.3	0
24	Multi-NIR-Emissive Materials based on Heterolanthanide Molecular Assemblies. MRS Advances, 2016, 1, 2683-2688.	0.9	1
25	Paving the way for solution-processable perovskite lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 1028-1033.	0.8	3
26	Excited State Properties of Hybrid Perovskites. Accounts of Chemical Research, 2016, 49, 166-173.	15.6	144
27	Can Trihalide Lead Perovskites Support Continuous Wave Lasing?. Advanced Optical Materials, 2015, 3, 1557-1564.	7.3	72
28	Synergic combination of the sol-gel method with dip coating for plasmonic devices. Beilstein Journal of Nanotechnology, 2015, 6, 500-507.	2.8	3
29	Tailoring functionality through synthetic strategy in heterolanthanide assemblies. Inorganic Chemistry Frontiers, 2015, 2, 213-222.	6.0	17
30	Efficient Exciton Diffusion and Resonance-Energy Transfer in Multilayered Organic Epitaxial Nanofibers. Journal of Physical Chemistry C, 2015, 119, 15689-15697.	3.1	12
31	Light Conversion Control in NIR-Emissive Optical Materials Based on Heterolanthanide Er <sub>3</sub> Yb <sub>3</sub> Quinolinolato Molecular Components. Chemistry of Materials, 2015, 27, 4082-4092.	6.7	19
32	Absorption F-Sum Rule for the Exciton Binding Energy in Methylammonium Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 4566-4572.	4.6	149
33	Controlling Nd-to-Yb energy transfer through a molecular approach. Journal of Materials Chemistry C, 2015, 3, 11524-11530.	5.5	24
34	Ln <sub>3</sub> Q <sub>9</sub> as a Molecular Framework for Ion-Size-Driven Assembly of Heterolanthanide (Nd, Er, Yb) Multiple Near-Infrared Emitters. Chemistry - A European Journal, 2015, 21, 3882-3885.	3.3	26
35	Thickness controlled sol-gel silica films for plasmonic bio-sensing devices. , 2014, , .		2
36	Sol-gel silica films embedding NIR- emitting Yb-quinolinolate complexes. , 2014, , .		1

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37	Optically Pumped Lasing from Single Crystals of a Cyano-Substituted Thiophene/Phenylene Co-Oligomer. <i>Advanced Optical Materials</i> , 2014, 2, 529-534.	7.3	38
38	Multiband Laser Action from Organic-Organic Heteroepitaxial Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1632, 1.	0.1	0
39	Colloidal synthesis and characterization of Bi <sub>2</sub> S <sub>3</sub> nanoparticles for photovoltaic applications. <i>Journal of Physics: Conference Series</i> , 2014, 566, 012017.	0.4	9
40	Colloidal Bi <sub>2</sub> S <sub>3</sub> Nanocrystals: Quantum Size Effects and Midgap States. <i>Advanced Functional Materials</i> , 2014, 24, 3341-3350.	14.9	65
41	Heteroepitaxy of Organic Nanofibers: Example of Ternaphthalene on <i>p</i> -Hexaphenyl. <i>Crystal Growth and Design</i> , 2014, 14, 5719-5728.	3.0	7
42	Charge separation in Pt-decorated CdSe@CdS octapod nanocrystals. <i>Nanoscale</i> , 2014, 6, 2238-2243.	5.6	15
43	Optical Sensitivity Gain in Silica-Coated Plasmonic Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2935-2940.	4.6	14
44	Correlated electron-hole plasma in organometal perovskites. <i>Nature Communications</i> , 2014, 5, 5049.	12.8	497
45	Plasmonic Structures for Near Infrared Applications. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1629, 1.	0.1	0
46	Plasmonic Structures for Sensing and Emitting Devices. <i>Journal of Physics: Conference Series</i> , 2014, 566, 012015.	0.4	2
47	Fully Efficient Direct Yb-to-Er Energy Transfer at Molecular Level in a Near-Infrared Emitting Heterometallic Trinuclear Quinolinolato Complex. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3062-3066.	4.6	25
48	Light-Induced Charged and Trap States in Colloidal Nanocrystals Detected by Variable Pulse Rate Photoluminescence Spectroscopy. <i>ACS Nano</i> , 2013, 7, 229-238.	14.6	44
49	Extending the Lasing Wavelength Coverage of Organic Semiconductor Nanofibers by Periodic Organic Heteroepitaxy. <i>Advanced Optical Materials</i> , 2013, 1, 117-122.	7.3	23
50	Organic Nanofibers: Extending the Lasing Wavelength Coverage of Organic Semiconductor Nanofibers by Periodic Organic Heteroepitaxy ( <i>Advanced Optical Materials</i> 2/2013). <i>Advanced Optical Materials</i> , 2013, 1, 116-116.	7.3	0
51	Organic Heteroepitaxy: The Method of Choice to Tune Optical Emission of Organic Nano-fibers?. <i>Springer Series in Materials Science</i> , 2013, , 49-78.	0.6	0
52	Excited-State Dynamics and Laser Action in Epitaxial Organic Nanofibers. <i>Springer Series in Materials Science</i> , 2013, , 231-249.	0.6	0
53	Interface Properties of Organic <i>p</i> -Hexaphenyl/±-Sexithiophene Heterostructures Deposited on Highly Oriented Pyrolytic Graphite. <i>Langmuir</i> , 2013, 29, 14444-14450.	3.5	8
54	Reversible Light-Induced On-Off Switching of Charge Traps in Quantum Dots Probe by Variable-Pulse-Rate Photoluminescence Spectroscopy.. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1509, 1.	0.1	0

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55	White fluorescent nano-fibers prepared by periodic organic hetero-epitaxy. Proceedings of SPIE, 2013, ,	0.8	1
56	Diffusion-limited aggregation in dry nanocrystal films. Materials Research Society Symposia Proceedings, 2012, 1411, 81.	0.1	0
57	Auger Recombination of Biexcitons and Charged Excitons in CdSe/CdS core/shell Nanocrystals. Materials Research Society Symposia Proceedings, 2012, 1409, 13.	0.1	0
58	Color Tuning of Nanofibers by Periodic Organic Organic Hetero-Epitaxy. ACS Nano, 2012, 6, 4629-4638.	14.6	35
59	Silica sol-gel glasses incorporating dual-luminescent Yb quinolinolato complex: processing, emission and photosensitising properties of the antenna ligand. Dalton Transactions, 2012, 41, 13147.	3.3	10
60	An active electron polarized scintillating GSO target for neutrino physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 335-340.	1.6	13
61	Dual Emitting [Yb(5,7ClQ) <sub>2</sub> (H5,7ClQ) <sub>2</sub> Cl]: Chemical and Photophysical Properties. ChemPlusChem, 2012, 77, 240-248.	2.8	15
62	Charged excitons, Auger recombination and optical gain in CdSe/CdS nanocrystals. Nanotechnology, 2012, 23, 015201.	2.6	41
63	Size-Dependent Electron Transfer from Colloidal PbS Nanocrystals to Fullerene. Journal of Physical Chemistry Letters, 2010, 1, 1149-1154.	4.6	54
64	Ultrafast Dynamics of Intersystem Crossing and Resonance Energy Transfer in Er(III)-Quinolinolate Complexes. Journal of Physical Chemistry Letters, 2010, 1, 2733-2737.	4.6	27
65	Population Saturation in Trivalent Erbium Sensitized by Organic Molecular Antennae. Journal of Physical Chemistry Letters, 2010, 1, 141-144.	4.6	15
66	Organic Organic Heteroepitaxy of Red-, Green-, and Blue-Emitting Nanofibers. ACS Nano, 2010, 4, 6244-6250.	14.6	42
67	Random lasers based on organic epitaxial nanofibers. Journal of Optics (United Kingdom), 2010, 12, 024003.	2.2	48
68	Solution-Processable Near-IR Photodetectors Based on Electron Transfer from PbS Nanocrystals to Fullerene Derivatives. Advanced Materials, 2009, 21, 683-687.	21.0	121
69	Exciton-Exciton Interaction and Optical Gain in Colloidal CdSe/CdS Dot/Rod Nanocrystals. Advanced Materials, 2009, 21, 4942-4946.	21.0	82
70	Highly Emissive Nanostructured Thin Films of Organic Host-Guests for Energy Conversion. ChemPhysChem, 2009, 10, 647-653.	2.1	68
71	Novel Er <sup>3+</sup> Perfluorinated Complexes for Broadband Sensitized Near Infrared Emission. Chemistry of Materials, 2009, 21, 128-135.	6.7	52
72	In Situ Production of Polymer-Capped Silver Nanoparticles for Optical Biosensing. Macromolecular Symposia, 2009, 283-284, 167-173.	0.7	4

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73	Temperature Tuning of Nonlinear Exciton Processes in Self-Assembled Oligophenyl Nanofibers under Laser Action. <i>Advanced Materials</i> , 2008, 20, 3017-3021.	21.0	21
74	Optical Gain and Random Lasing in Self-Assembled Organic Nanofibers. , 2008, , 239-260.		0
75	New Insights on Near-Infrared Emitters Based on Er-Quinolinolate Complexes: Synthesis, Characterization, Structural, and Photophysical Properties. <i>Advanced Functional Materials</i> , 2007, 17, 2365-2376.	14.9	60
76	Optical Gain Performance of Epitaxially Grown para-sexiphenyl Films. <i>Advanced Materials</i> , 2007, 19, 2252-2256.	21.0	19
77	Near infrared light emission quenching in organolanthanide complexes. <i>Journal of Applied Physics</i> , 2006, 99, 053520.	2.5	67
78	Organic nanofibers as new media for lasing, waveguiding, and photonic sensing. , 2006, , .		0
79	Gain amplification and lasing properties of individual organic nanofibers. <i>Applied Physics Letters</i> , 2006, 88, 041106.	3.3	120
80	Coherent random lasing in the deep blue from self-assembled organic nanofibers. <i>Journal of Applied Physics</i> , 2006, 99, 034305.	2.5	42
81	Fast and ultrafast response of aligned organic nanofibers - towards organic nanolasers. , 2005, , .		0
82	Low-threshold blue lasing in epitaxially grown para-sexiphenyl nanofibers. <i>Journal of Luminescence</i> , 2005, 112, 321-324.	3.1	21
83	Blue emitting self-assembled nano-crystals of para-sexiphenyl grown by hot wall epitaxy. <i>Microelectronics Journal</i> , 2005, 36, 237-240.	2.0	3
84	Structure and Emission Properties of Er <sub>3</sub> Q <sub>9</sub> (Q = 8-Quinolinolate). <i>Inorganic Chemistry</i> , 2005, 44, 840-842.	4.0	81
85	One-Dimensional Random Lasing in a Single Organic Nanofiber. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21690-21693.	2.6	84
86	Random laser action in self-organized para-sexiphenyl nanofibers grown by hot-wall epitaxy. <i>Applied Physics Letters</i> , 2004, 84, 4454-4456.	3.3	103
87	Blue emitting self-assembled nano-fibers of para-sexiphenyl grown by hot wall epitaxy. <i>Physica Status Solidi A</i> , 2004, 201, 2288-2293.	1.7	5
88	Organic Nanostructured Host-Guest Materials Containing Three Dyes. <i>Advanced Materials</i> , 2004, 16, 1716-1721.	21.0	43
89	Third-order nonlinearities in silicon at telecom wavelengths. <i>Applied Physics Letters</i> , 2003, 82, 2954-2956.	3.3	566
90	Implementation of electro-optic spectral shearing interferometry for ultrashort pulse characterization. <i>Optics Letters</i> , 2003, 28, 2264.	3.3	30

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91	Coulomb and carrier-activation dynamics of resonantly excited InAs/GaAs quantum dots in two-color pump-probe experiments. <i>Physical Review B</i> , 2003, 67, .	3.2	24
92	Optical properties of strained antimonide-based heterostructures. <i>Journal of Applied Physics</i> , 2003, 94, 1506-1512.	2.5	55
93	Ultrafast carrier activation in resonantly excited 1.3 $\mu\text{m}$ InAs/GaAs quantum dots at room temperature. <i>Physical Review B</i> , 2002, 65, .	3.2	8
94	High-speed dynamics of GaAsSb vertical-cavity lasers. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 438-440.	2.5	4
95	Ultrafast carrier dynamics of resonantly excited 1.3- $\mu\text{m}$ InAs/GaAs self-assembled quantum dots. <i>Physica B: Condensed Matter</i> , 2002, 314, 263-267.	2.7	30
96	Continuous-wave operation of a 1.3- $\mu\text{m}$ GaAsSb-GaAs quantum-well vertical-cavity surface-emitting laser at room temperature. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 921-923.	2.5	37
97	Femtosecond dynamics and non-linearities of "exciton" photon coupling in semiconductor microstructures. <i>Comptes Rendus Physique</i> , 2001, 2, 1439-1451.	0.1	1
98	Growth and optical properties of GaAsSb quantum wells for 1.3 $\mu\text{m}$ VCSELs. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 1948.	1.6	14
99	Room temperature operation of GaAsSb/GaAs quantum well VCSELs at 1.29 $\mu\text{m}$ . <i>Electronics Letters</i> , 2000, 36, 2075.	1.0	18
100	The Microcavity AC Stark Triplet: Excitation in the Exciton Continuum. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 127-131.	1.5	0
101	Crossover from Exciton to Biexciton Cavity Polaritons. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 157-162.	1.5	1
102	Net Coherent Optical Gain in Strongly Pumped Semiconductor Microcavities. <i>Physica Status Solidi A</i> , 2000, 178, 139-143.	1.7	0
103	The Importance of Disorder in Very High Quality Semiconductor Microcavities. <i>Physica Status Solidi A</i> , 2000, 178, 149-153.	1.7	4
104	Direct observation of the excitonic ac Stark splitting in a quantum well. <i>Physical Review B</i> , 2000, 62, R16322-R16325.	3.2	25
105	Crossover from Exciton to Biexciton Polaritons in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2000, 85, 385-388.	7.8	42
106	Direct observation of an ac Stark splitting in semiconductor microcavities excited above the continuum onset. <i>Physical Review B</i> , 2000, 61, R5113-R5116.	3.2	6
107	Strong coherent gain from semiconductor microcavities in the regime of excitonic saturation. <i>Physical Review B</i> , 1999, 59, R15594-R15597.	3.2	20
108	Intrinsic non-linearities in exciton-cavity-coupled systems. <i>Physica B: Condensed Matter</i> , 1999, 272, 472-475.	2.7	3

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109	Coherent exciton-photon dynamics in high-quality II-VI semiconductor microcavities. Journal of Crystal Growth, 1998, 184-185, 754-757.	1.5	1
110	Exciton-Photon Dynamics in Weakly and Strongly Excited Semiconductor Microcavities. Physica Status Solidi (B): Basic Research, 1998, 206, 375-386.	1.5	2
111	Theory of the excitonic Mollow spectrum in semiconductors. Solid State Communications, 1998, 107, 715-718.	1.9	8
112	Strongly Driven Semiconductor Microcavities: From the Polariton Doublet to an ac Stark Triplet. Physical Review Letters, 1998, 80, 4733-4736.	7.8	72
113	The contribution of biexcitons to the four-wave mixing response of quantum wells with inhomogeneously broadened transitions. Semiconductor Science and Technology, 1997, 12, 300-308.	2.0	8
114	Coherent exciton-photon dynamics in semiconductor microcavities: The influence of inhomogeneous broadening. Physical Review B, 1997, 55, 7084-7090.	3.2	53
115	Optical Stark Effect and Coherent Gain of Excitons in a Semiconductor Microcavity. Physica Status Solidi A, 1997, 164, 23-27.	1.7	1
116	Speed Dependence of Pressure Broadening in Molecular Rotational Spectra Using a Novel Technique. Physical Review Letters, 1995, 74, 3356-3359.	7.8	13
117	Direct observation of the excitonic ac Stark splitting in a semiconductor quantum well. , 0, , .		0