

Margherita Zavelani-Rossi

List of Publications by Year in descending order

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105
papers

3,597
citations

94269

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143772

57
g-index

105
all docs

105
docs citations

105
times ranked

4473
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed laser deposition of carbon nanofoam. Applied Surface Science, 2022, 599, 153859.	3.1	7
2	(Invited) Ultrafast Spectroscopy in Semiconductor Nanocrystals: Revealing the Origin of Single Vs Double Emission, of Optical Gain and the Role of Dopants. ECS Meeting Abstracts, 2022, MA2022-01, 1104-1104.	0.0	0
3	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS ₂ Nanosheets. Advanced Optical Materials, 2021, 9, 2001408.	3.6	6
4	Gram-scale synthesis of carbon quantum dots with a large Stokes shift for the fabrication of eco-friendly and high-efficiency luminescent solar concentrators. Energy and Environmental Science, 2021, 14, 396-406.	15.6	174
5	Intrinsic and Extrinsic Exciton Recombination Pathways in AgInS ₂ Colloidal Nanocrystals. Energy Material Advances, 2021, 2021, .	4.7	15
6	Optical and Magneto-Optical Properties of Donor-Bound Excitons in Vacancy-Engineered Colloidal Nanocrystals. Nano Letters, 2021, 21, 6211-6219.	4.5	2
7	Advanced laser-driven ion sources and their applications in materials and nuclear science. Plasma Physics and Controlled Fusion, 2020, 62, 014022.	0.9	35
8	Harvesting Delayed Fluorescence in Perovskite Nanocrystals Using Spin-Forbidden Mn d States. ACS Energy Letters, 2020, 5, 353-359.	8.8	18
9	Evidence for the Band-Edge Exciton of CuInS ₂ Nanocrystals Enables Record Efficient Large-Area Luminescent Solar Concentrators. Advanced Functional Materials, 2020, 30, 1906629.	7.8	65
10	Evidence of Plasmon Enhanced Charge Transfer in Large-Area Hybrid Au-MoS ₂ Metasurface. Advanced Optical Materials, 2020, 8, 2000653.	3.6	20
11	Tuning the transient opto-electronic properties of few-layer MoS ₂ nanosheets via substrate nano-patterning. EPJ Web of Conferences, 2020, 238, 07006.	0.1	0
12	(Invited) Ultrafast Exciton Dynamics in Semiconductor Nanocrystals: Effects on Single Vs Dual Emission and on Optical Gain. ECS Meeting Abstracts, 2020, MA2020-01, 1100-1100.	0.0	0
13	High Intensity Lasers for nuclear and physical applications. , 2020, , .		1
14	Quantized Electronic Doping towards Atomically Controlled "Charge-Engineered" Semiconductor Nanocrystals. Nano Letters, 2019, 19, 1307-1317.	4.5	17
15	Transient Species Mediating Energy Transfer to Spin-Forbidden Mn d States in II-VI Semiconductor Quantum Dots. ACS Energy Letters, 2019, 4, 729-735.	8.8	26
16	Excitonic pathway to photoinduced magnetism in colloidal nanocrystals with nonmagnetic dopants. Nature Nanotechnology, 2018, 13, 145-151.	15.6	64
17	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS ₂ Sheets. ACS Photonics, 2018, 5, 3363-3371.	3.2	17
18	Ultrasmall Nanoplatelets: The Ultimate Tuning of Optoelectronic Properties. Advanced Energy Materials, 2017, 7, 1602728.	10.2	30

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19	Colloidal Synthesis of Bipolar Off-Stoichiometric Gallium Iron Oxide Spinel-Type Nanocrystals with Near-IR Plasmon Resonance. <i>Journal of the American Chemical Society</i> , 2017, 139, 1198-1206.	6.6	25
20	Dual emission and optical gain in PbS/CdS nanocrystals: Role of shell volume and of core/shell interface. <i>Physical Review B</i> , 2017, 96, .	1.1	14
21	Engineering interfacial structure in PbS/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541.	8.2	88
22	Effect of Core/Shell Interface on Carrier Dynamics and Optical Gain Properties of Dual-Color Emitting CdSe/CdS Nanocrystals. <i>ACS Nano</i> , 2016, 10, 6877-6887.	7.3	57
23	Dual emission in asymmetric PbS/CdS/CdS core/shell/shell quantum dots. <i>Nanoscale</i> , 2016, 8, 4217-4226.	2.8	54
24	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. <i>ACS Photonics</i> , 2015, 2, 521-529.	3.2	62
25	Modulating Exciton Dynamics in Composite Nanocrystals for Excitonic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2489-2495.	2.1	20
26	Lasing from all-polymer microcavities. <i>Laser Physics Letters</i> , 2014, 11, 035804.	0.6	65
27	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu_2Se Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3337-3344.	2.1	47
28	Plasmonics in heavily-doped semiconductor nanocrystals. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	76
29	Self-assembled CdSe/CdS nanorod micro-lasers fabricated from solution by capillary jet deposition. <i>Laser and Photonics Reviews</i> , 2012, 6, 678-683.	4.4	47
30	Band-edge ultrafast pump-probe spectroscopy of core/shell CdSe/CdS rods: assessing electron delocalization by effective mass calculations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7420.	1.3	12
31	Study of higher-energy core states in CdSe/CdS octapod nanocrystals by ultrafast spectroscopy. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	2
32	Steady-state photoinduced absorption of CdSe/CdS octapod shaped nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15326.	1.3	9
33	Ultrafast Exciton Dynamics in Colloidal CdSe/CdS Octapod Shaped Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9005-9011.	1.5	19
34	Amplified spontaneous emission from core and shell transitions in CdSe/CdS nanorods fabricated by seeded growth. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	35
35	Two-Photon Poly(phenylenevinylene) DFB Laser. <i>Chemistry of Materials</i> , 2011, 23, 805-809.	3.2	36
36	Plasmon Dynamics in Colloidal Cu_2Se Nanocrystals. <i>Nano Letters</i> , 2011, 11, 4711-4717.	4.5	158

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37	Sub- μ m Charge Modulation Microscopy of a High Mobility Polymeric n-Channel Field-Effect Transistor. <i>Advanced Materials</i> , 2011, 23, 5086-5090.	11.1	55
38	Evidence of electron wave function delocalization in CdSe/CdS asymmetric nanocrystals. <i>Superlattices and Microstructures</i> , 2010, 47, 170-173.	1.4	10
39	Suppression of Biexciton Auger Recombination in CdSe/CdS Dot/Rods: Role of the Electronic Structure in the Carrier Dynamics. <i>Nano Letters</i> , 2010, 10, 3142-3150.	4.5	97
40	Lasing in self-assembled microcavities of CdSe/CdS core/shell colloidal quantum rods. <i>Nanoscale</i> , 2010, 2, 931.	2.8	120
41	Hollow-pyramid based scanning near-field optical microscope coupled to femtosecond pulses: A tool for nonlinear optics at the nanoscale. <i>Review of Scientific Instruments</i> , 2009, 80, 033704.	0.6	30
42	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
43	Imaging the Electric Field Distribution in Organic Devices by Confocal Electroreflectance Microscopy. <i>Advanced Functional Materials</i> , 2009, 19, 1180-1185.	7.8	10
44	Ultrafast electron-hole dynamics and optical gain in CdSe/CdS nanorods. , 2009, , .		0
45	Retrieving the complex polarizability of single plasmonic nanoresonators. <i>Physical Review B</i> , 2009, 80, .	1.1	10
46	Ultrafast carrier dynamics in spherical CdSe core/elongated CdS shell nanocrystals. <i>Springer Series in Chemical Physics</i> , 2009, , 289-291.	0.2	1
47	Ultrafast Photonics in Polymer Nanostructures. , 2009, , 251-310.		0
48	Near-field second-harmonic generation from gold nanoellipsoids. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2657-2661.	0.8	7
49	Ultrafast Electron-Hole Dynamics in Core/Shell CdSe/CdS Dot/Rod Nanocrystals. <i>Nano Letters</i> , 2008, 8, 4582-4587.	4.5	146
50	Mapping local field enhancements at nanostructured metal surfaces by second-harmonic generation induced in the near field. <i>Journal of Microscopy</i> , 2008, 229, 233-239.	0.8	10
51	Near-field second-harmonic generation in single gold nanoparticles. <i>Applied Physics Letters</i> , 2008, 92, 093119.	1.5	70
52	Ultrafast carrier dynamics and confined acoustic phonons in CdSe nanorods. <i>Journal of Optics</i> , 2008, 10, 064004.	1.5	8
53	Ultrafast optical modulation of polymer nano-structured lasers. , 2008, , .		0
54	Kinetics of interfacial charges in hybrid GaAs/oligothiophene semiconducting heterojunctions. <i>Applied Physics Letters</i> , 2007, 91, 122113.	1.5	7

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55	Role of defect states on Auger processes in resonantly pumped CdSe nanorods. Applied Physics Letters, 2007, 91, 093106.	1.5	9
56	High-resolution imaging of local oxidation in polyfluorene thin films by nonlinear near-field microscopy. Applied Physics Letters, 2007, 91, 191118.	1.5	13
57	Effects of morphology and optical contrast in organic distributed feedback lasers. Applied Physics Letters, 2007, 90, 111110.	1.5	22
58	Ultrafast optical switching in distributed feedback polymer laser. Applied Physics Letters, 2007, 91, .	1.5	28
59	Nonlinear optics and spectroscopy at the nanoscale with a hollow-pyramid aperture SNOM. Journal of Physics: Conference Series, 2007, 61, 125-129.	0.3	3
60	Mapping local field distribution at metal nanostructures by near-field second-harmonic generation. Proceedings of SPIE, 2007, , .	0.8	5
61	Ultrafast optical excitations of metallic nanostructures: from light confinement to a novel electron source. New Journal of Physics, 2007, 9, 397-397.	1.2	50
62	Monolithic polymer microcavity lasers with on-top evaporated dielectric mirrors. Applied Physics Letters, 2006, 88, 121110.	1.5	42
63	Laser dynamics in organic distributed feedback lasers. Applied Physics Letters, 2006, 89, 181105.	1.5	23
64	Role of the shell thickness in stimulated emission and photoinduced absorption in CdSe/core/shell nanorods. Physical Review B, 2006, 73, .	1.1	39
65	Ultrafast Photophysics in Conjugated Polymers. , 2006, , 129-151.		0
66	Femtosecond near-field optical microscope for nonlinear nanospectroscopy. , 2005, , .		1
67	Ultrafast carrier dynamics in core and core/shell CdSe quantum rods: Role of the surface and interface defects. Physical Review B, 2005, 72, .	1.1	72
68	Characterization of femtosecond light pulses coupled to hollow-pyramid near-field probes: Localization in space and time. Applied Physics Letters, 2005, 86, 031105.	1.5	29
69	Optical properties of waveguides written by a 26 MHz stretched cavity Ti:sapphire femtosecond oscillator. Optics Express, 2005, 13, 612.	1.7	115
70	Real-time observation of coherent nuclear motion in polydiacetylene isolated chains. Physical Review B, 2004, 69, .	1.1	19
71	Photophysics of conjugated polymers: the contribution of ultrafast spectroscopy. Physica Status Solidi A, 2004, 201, 1116-1131.	1.7	39
72	Highly efficient second-harmonic nanosource for near-field optics and microscopy. Optics Letters, 2004, 29, 62.	1.7	40

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73	Probing of bound electron-hole-pairs by optical re-excitation in a short-chain oligomer. <i>Chemical Physics Letters</i> , 2003, 381, 751-758.	1.2	2
74	Low threshold tunable lasing from a new substituted thiophene-based oligomer. <i>Synthetic Metals</i> , 2003, 137, 1485-1486.	2.1	2
75	Organic laser based on thiophene derivatives. <i>Synthetic Metals</i> , 2003, 139, 901-903.	2.1	17
76	Influence of the orientation of liquid crystalline poly(9,9-dioctylfluorene) on its lasing properties in a planar microcavity. <i>Applied Physics Letters</i> , 2002, 80, 4088-4090.	1.5	38
77	Ultrafast photoexcitation dynamics in a ladder-type oligophenyl. <i>Physical Review B</i> , 2002, 66, .	1.1	13
78	Amplified spontaneous emission and efficient tunable laser emission from a substituted thiophene-based oligomer. <i>Applied Physics Letters</i> , 2002, 81, 3534-3536.	1.5	103
79	Few-optical-cycle laser pulses by OPA: broadband chirped mirror compression and SPIDER characterization. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, s245-s251.	1.1	26
80	High-power diode-pumped Yb:GdCOB laser: from continuous-wave to femtosecond regime. <i>Optical Materials</i> , 2002, 19, 73-80.	1.7	27
81	Pulse compression over a 170-THz bandwidth in the visible by use of only chirped mirrors. <i>Optics Letters</i> , 2001, 26, 1155.	1.7	125
82	Sub-10 fs time resolved study of excited state relaxation in all-trans- β -carotene. <i>Synthetic Metals</i> , 2001, 116, 1-3.	2.1	18
83	Sub-10 fs excited state evolution in polycarbazolyldiacetylene-polyethylene blends. <i>Synthetic Metals</i> , 2001, 116, 57-60.	2.1	10
84	Ultrafast photoexcitation dynamics in a ladder-type oligophenyl. <i>Synthetic Metals</i> , 2001, 119, 609-610.	2.1	1
85	Influence of environment on the excited state deactivation in functionalized quinquethienyl in solution. <i>Synthetic Metals</i> , 2001, 119, 617-618.	2.1	3
86	Photoexcitation of conjugated systems studied with sub-10 fs time resolution. <i>Synthetic Metals</i> , 2001, 119, 491-494.	2.1	5
87	Stimulated emission dynamics in a hexacatenar liquid crystal. <i>Synthetic Metals</i> , 2001, 121, 1323-1324.	2.1	7
88	Two-step mechanism for the photoinduced intramolecular electron transfer in oligo(p-phenylene) Tj ETQq0 0 0 rgBT Overlock 10 Tf 50	1.1	53
89	Multiwatt, tunable, diode-pumped CW Yb:GdCOB laser. <i>Applied Physics B: Lasers and Optics</i> , 2001, 72, 389-393.	1.1	60
90	Ultrafast Förster transfer dynamics in tetraphenylporphyrin doped poly(9,9-dioctylfluorene). <i>Chemical Physics Letters</i> , 2001, 335, 27-33.	1.2	66

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91	Full temporal resolution of the two-step photoinduced energyâ€“electron transfer in a fullereneâ€“oligothiopheneâ€“fullerene triad using sub-10 fs pumpâ€“probe spectroscopy. Chemical Physics Letters, 2001, 345, 33-38.	1.2	62
92	Amplified spontaneous emission from a soluble thiophene-based oligomer. Applied Physics Letters, 2001, 78, 2679-2681.	1.5	29
93	Single-mode tunable organic laser based on an electroluminescent oligothiophene. Applied Physics Letters, 2001, 79, 4082-4084.	1.5	42
94	Early events of energy relaxation in all-trans-Î²-carotene following sub-10 fs optical-pulse excitation. Physical Review B, 2001, 63, .	1.1	60
95	Triplet-Exciton Generation Mechanism in a New Soluble (Red-Phase) Polydiacetylene. Physical Review Letters, 2001, 87, .	2.9	71
96	Coherent Dynamics of Photoexcited Green Fluorescent Proteins. Physical Review Letters, 2001, 86, 3439-3442.	2.9	56
97	Control of thermal effects for high-intensity Ti:sapphire laser chains. Applied Physics B: Lasers and Optics, 2000, 70, S193-S196.	1.1	20
98	Ultra-fast spectroscopy and extreme nonlinear optics by few-optical-cycle laser pulses. Applied Physics B: Lasers and Optics, 2000, 71, 779-786.	1.1	10
99	Ultrafast light-emission processes in poly(para-phenylene)-type ladder polymer films. Physical Review B, 1999, 59, 11328-11332.	1.1	25
100	The role of amplified spontaneous emission in the ultrafast relaxation dynamics of polymer films. Chemical Physics Letters, 1998, 289, 205-210.	1.2	33
101	Nd:YVO4 laser mode locked by cascading of second order nonlinearities. Optics Communications, 1998, 152, 45-48.	1.0	9
102	Mode locking by cascading of second-order nonlinearities. IEEE Journal of Quantum Electronics, 1998, 34, 61-70.	1.0	34
103	Perturbative analysis of transverse effects of Î² cascading in resonators. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2929.	0.9	2
104	Single-mode picosecond blue laser emission from a solid conjugated polymer. Applied Physics Letters, 1998, 73, 2860-2862.	1.5	65
105	Waveguides in Ti:LiNbO 3 for second-harmonic generation: design and experimental tests. , 1996, , .		2