Raffaella Signorini

List of Publications by Year
in descending order

87	2,853	186265	175258
papers	citations	28 h-index	52 g-index

88	88	88	3705
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review on Surface-Enhanced Raman Scattering. Biosensors, 2019, 9, 57.	4.7	545
2	Novel Heterocycle-Based Two-Photon Absorbing Dyes. Organic Letters, 2002, 4, 1495-1498.	4.6	195
3	Push-Pull Organic Chromophores for Frequency-Upconverted Lasing. Advanced Materials, 2000, 12, 1963-1967.	21.0	173
4	Novel heteroaromatic-based multi-branched dyes with enhanced two-photon absorption activityElectronic supplementary information (ESI) available: Experimental section. See http://www.rsc.org/suppdata/cc/b3/b305995b/. Chemical Communications, 2003, , 2144.	4.1	122
5	Organic Functionalization and Optical Properties of Carbon Onions. Journal of the American Chemical Society, 2003, 125, 14268-14269.	13.7	93
6	Highly Efficient Amplified Stimulated Emission from CdSeâ€CdSâ€ZnS Quantum Dot Doped Waveguides with Twoâ€Photon Infrared Optical Pumping. Advanced Materials, 2008, 20, 69-73.	21.0	90
7	C60 derivatives embedded in sol-gel silica films. Advanced Materials, 1995, 7, 404-406.	21.0	86
8	Softâ€Lithographed Upâ€Converted Distributed Feedback Visible Lasers Based on CdSeâ€“CdZnSâ€“ZnS Quantum Dots. Advanced Functional Materials, 2012, 22, 337-344.	14.9	82
9	Luminescence and Amplified Stimulated Emission in CdSe-ZnS-Nanocrystal-Doped TiO2 and ZrO2 Waveguides. Advanced Functional Materials, 2007, 17, 1654-1662.	14.9	77
10	Linear and nonlinear optical properties of fullerenes in solid state materials. Journal of Materials Chemistry, 2002, 12, 1964-1977.	6.7	73
11	Two-photon-pumped frequency-upconverted blue lasing in Coumarin dye solution. Applied Optics, 1998, 37, 5720.	2.1	65
12	Evaluation of gold nanoparticles toxicity towards human endothelial cells under static and flow conditions. Microvascular Research, 2015, 97, 147-155.	2.5	64
13	Investigation into the Heterostructure Interface of CdSe-Based Coreâ€“Shell Quantum Dots Using Surface-Enhanced Raman Spectroscopy. ACS Nano, 2013, 7, 6649-6657.	14.6	57
14	Optical limiting and non linear optical properties of fullerene derivatives embedded in hybrid solâ€“gel glasses. Carbon, 2000, 38, 1653-1662.	10.3	56
15	Indolic Squaraines as Two-Photon Absorbing Dyes in the Visible Region: X-ray Structure, Electrochemical, and Nonlinear Optical Characterization. Chemistry of Materials, 2008, 20, 3242-3244.	6.7	56
16	Oxidation effects on the SERS response of silver nanoprism arrays. RSC Advances, 2017, 7, 369-378.	3.6	55
17	Synthesis and Optical-Limiting Behavior of Hybrid Inorganic-Organic Materials from the Sol-Gel Processing of Organofullerenes. Chemistry - A European Journal, 1999, 5, 2501-2510.	3.3	52
18	3-(Glycidoxypropyl)-trimethoxysilaneâ€“TiO2 hybrid organicâ€“inorganic materials for optical limiting. Journal of Non-Crystalline Solids, 2000, 265, 68-74.	3.1	51

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19	Optical limiting properties of soluble fullerene derivatives for incorporation in solâ€“gel materials. Chemical Communications, 1996, , 1891-1892.	4.1	49
20	Engineering of Semiconductor Nanocrystals for Light Emitting Applications. Materials, 2016, 9, 672.	2.9	47
21	Effective Two-Photon Absorption Cross Section of Heteroaromatic Quadrupolar Dyes:â€‰ Dependence on Measurement Technique and Laser Pulse Characteristics. Journal of Physical Chemistry A, 2008, 112, 4224-4234.	2.5	41
22	Silver Nanoparticle Arrays on a DVD-Derived Template: An easy&cheap SERS Substrate. Plasmonics, 2011, 6, 725-733.	3.4	41
23	Longitudinally two-photon pumped leaky waveguide dye film laser. IEEE Journal of Quantum Electronics, 1998, 34, 7-13.	1.9	37
24	Role of Coreâ€“Shell Interfaces on Exciton Recombination in CdSeâ€“Cd_xZn_{1â€“x}S Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 24117-24126.	3.1	37
25	Sensitive detection of Ochratoxin A in food and drinks using metal-enhanced fluorescence. Biosensors and Bioelectronics, 2014, 57, 125-132.	10.1	35
26	Far- and near-field properties of gold nanoshells studied by photoacoustic and surface-enhanced Raman spectroscopies. Physical Chemistry Chemical Physics, 2015, 17, 21190-21197.	2.8	30
27	Optical Limiting Devices Based on C60 Derivatives in Sol-Gel Hybrid Organic-Inorganic Materials. Journal of Sol-Gel Science and Technology, 2000, 19, 263-266.	2.4	29
28	One- and Two-Photon Absorption and Emission Properties of a Zn(II) Chemosensor. Journal of Physical Chemistry A, 2006, 110, 6459-6464.	2.5	29
29	Photocatalytic Performance of Hybrid SiO₂â^'TiO₂ Films. Journal of Physical Chemistry C, 2010, 114, 7646-7652.	3.1	29
30	Sol-gel materials embedding fullerene derivatives for optical limiting. Synthetic Metals, 1997, 86, 2353-2354.	3.9	28
31	Two-photon absorption of Zn(ii) octupolar molecules. Physical Chemistry Chemical Physics, 2007, 9, 2999.	2.8	28
32	Arylethynylâ€Substituted Tristriazolotriazines: Synthesis, Optical Properties, and Thermotropic Behavior. European Journal of Organic Chemistry, 2014, 2014, 3116-3126.	2.4	28
33	Heterocycle-based materials for frequency-upconverted lasing. Synthetic Metals, 2001, 121, 1755-1756.	3.9	27
34	Highly Luminescent and Temperature Stable Quantum Dot Thin Films Based on a ZnS Composite. Chemistry of Materials, 2012, 24, 2117-2126.	6.7	23
35	Design and synthesis of heterocyclic multi-branched dyes for two-photon absorption. Synthetic Metals, 2003, 139, 795-797.	3.9	22
36	Amplified spontaneous emission from opal photonic crystals engineered with structural defects. Physical Chemistry Chemical Physics, 2009, 11, 11515.	2.8	18

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37	Facile production of up-converted quantum dot lasers. Nanoscale, 2011, 3, 4109.	5.6	18
38	CdSe Coreâ"Shell Nanoparticles as Active Materials for Up-Converted Emission. Journal of Physical Chemistry C, 2011, 115, 3840-3846.	3.1	16
39	Design, fabrication and characterization of plasmonic gratings for SERS. Microelectronic Engineering, 2011, 88, 2717-2720.	2.4	16
40	Photorefractive direct laser writing. Journal Physics D: Applied Physics, 2016, 49, 125103.	2.8	15
41	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 245-253.	2.4	14
42	Synthesis of novel fullerene-functionalized polysulfones for optical limiting applications. Reactive and Functional Polymers, 2011, 71, 641-647.	4.1	14
43	Hybrid organic/inorganic materials for photonic applications via assembling of nanostructured molecular units. Journal of Sol-Gel Science and Technology, 2008, 48, 217-223.	2.4	13
44	Surface-Enhanced Raman Spectroscopy: Principles, Substrates, and Applications. , 2018, , 89-164.		13
45	Gold nanoparticles in a polycarbonate matrix for optical limiting against a CW laser. Laser Physics, 2014, 24, 105901.	1.2	12
46	Thermomechanical stress in GaNâ€ŁEDs soldered onto Cu substrates studied using finite element method and Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2083-2094.	2.5	11
47	Optical limiting of multilayer sol-gel structures containing fullerenes. Synthetic Metals, 1999, 103, 2474-2475.	3.9	10
48	Excited state absorption of fullerenes measured by the photoacoustic calorimetry techniqueDedicated to Professor Silvia Braslavsky, to mark her great contribution to photochemistry and photobiology particularly in the field of photothermal methods.. Photochemical and Photobiological Sciences, 2003, 2, 801.	2.9	10
49	A fullereneâ€"distyrylbenzene photosensitizer for two-photon promoted singlet oxygen production. Physical Chemistry Chemical Physics, 2010, 12, 4656.	2.8	10
50	Thermomechanical Stress in GaN LED Soldered on Copper Substrate Evaluated by Raman Measurements and Computer Modelling. , 2018, , .		10
51	Michael and substitution reactions of bicyclic tetronic, tetramic and thiotetronic esters.. Tetrahedron, 1994, 50, 8237-8252.	1.9	9
52	Optical Limiting of Fullerene Derivatives Embedded in Sol-Gel Materials. , 1996, , 159-174.		8
53	Preparation and characterization of fullerences containing sol-gel glass. Journal of Sol-Gel Science and Technology, 1997, 8, 609-613.	2.4	7
54	Fullerene functionalized gold nanoparticles for optical limiting of continuous wave lasers. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	7

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55	Contactless Temperature Sensing at the Microscale Based on Titanium Dioxide Raman Thermometry. Biosensors, 2021, 11, 102.	4.7	7
56	<title>Fullerene derivatives embedded in sol-gel materials for optical limiting</title>. , 1996, 2854, 130.		6
57	Novel hybrid organic-inorganic sol-gel materials based on highly efficient heterocyclic push-pull chromophores. , 1999, 3803, 18.		5
58	Î³(glicydoxypropyl)-trymethoxysilane-based matrices tailored for optical limiting applications. , 1999, , .		5
59	Optical Limiting Applications. Developments in Fullerence Science, 2002, , 295-326.	0.5	5
60	UV-Curable SiO₂â€“TiO₂ Films for the Realization of Diffractive Optical Elements. Journal of Nanoscience and Nanotechnology, 2011, 11, 195-199.	0.9	5
61	Optical limiting based on multiphoton processes in carbon nanostructures and heterocyclic quadrupolar molecules. , 2003, , .		4
62	Green synthesis and electrophoretic deposition of Ag nanoparticles on SiO2/Si(100). Nanotechnology, 2013, 24, 345501.	2.6	4
63	Gold nanoparticles as optical limiting materials against cw lasers. , 2013, , .		4
64	Modelling Thermo-Mechanical Stress in GaN-LEDs Soldered on Copper Substrate with Simulations Validated by Raman Experiments. , 2019, , .		4
65	Pushâ€“Pull Organic Chromophores for Frequency-Upconverted Lasing. Advanced Materials, 2000, 12, 1963-1967.	21.0	3
66	Substitution and Michael reactions of bicyclic tetronic, tetramic and thiotetronic esters. Journal of the Chemical Society Perkin Transactions 1, 1993, , 1831.	0.9	2
67	Photopolymerization of hybrid organic/inorganic materials based on nanostructured units for photonic applications. , 2007, 6645, 397.		2
68	One- and two-photon pumped soft lithographed DFB laser systems based on semiconductor core-shell quantum dots. , 2010, , .		2
69	Investigation of Thermomechanical Local Stress Induced in Assembled GaN LEDs. , 2019, , .		2
70	Molecular and Material Engineering for Optical Limiting with Fullerene Based Sol-Gel Materials. , 2000, , 83-98.		2
71	Thermomechanical local stress in assembled GaN LEDs investigated by Raman optical spectroscopy. , 2019, , .		2
72	Hybrid Sol-Gel Surface-Enhanced Raman Sensor for Xylene Detection in Solution. Sensors, 2021, 21, 7912.	3.8	2

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73	Laser damage of glycidoxypropyltrimethoxysilane based hybrid materials. Journal of Non-Crystalline Solids, 2008, 354, 3317-3325.	3.1	1
74	Photonic devices based on patterning by two photon induced polymerization techniques. Proceedings of SPIE, 2008, , .	0.8	1
75	Micro-Raman to detect stress phenomena in Si-chips bonded onto Cu substrates. , 2021, , .		1
76	Biocompatible Temperature nanosensors based on Titanium dioxide. , 2020, 60, .		1
77	Optical limiting materials based on fullerene derivatives. , 1999, , .		0
78	Novel Heteroaromatic-Based Multi-Branched Dyes with Enhanced Two-Photon Absorption Activity. ChemInform, 2003, 34, no.	0.0	0
79	Synthesis of 3-glycidoxypropyltrimethoxysilane-TiO 2 UV-sensitive waveguides. , 2006, , .		0
80	New sol-gel materials for high energy applications in nonlinear optics. Proceedings of SPIE, 2007, , .	0.8	0
81	One- and Two-Photon Pumped DFB Laser Based on Semiconductor Quantum Dots Embedded in a Sol-Gel Matrix. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 415-416.	0.3	0
82	Distributed Feedback Laser: Soft-Lithographed Up-Converted Distributed Feedback Visible Lasers Based on CdSe-CdZnS-ZnS Quantum Dots (Adv. Funct. Mater. 2/2012). Advanced Functional Materials, 2012, 22, 336-336.	14.9	0
83	Improving optical limiting of cw lasers with fullerene functionalized gold nanoparticles. Proceedings of SPIE, 2014, , .	0.8	0
84	Influence of core-shell interfaces on exciton and multi-exciton dynamics of CdSe-Cd_xZn_{1-x}S quantum dots. Proceedings of SPIE, 2014, , .	0.8	0
85	Highly Efficient Multiphoton Absorption in a New Quadrupolar Heterocyclic Dye. , 2003, , 231-240.		0
86	Novel Heterocycle-Based Two-Photon Absorbing Dyes. , 2003, , 385-393.		0
87	Strategy for the improvement of mixing in microdevices. Houille Blanche, 2011, 97, 79-85.	0.3	0