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	Contactless Temperature Sensing at the Microscale Based on Titanium Dioxide Raman Thermometry. Biosensors, 2021, 11, 102.	4.7	7
2	Micro-Raman to detect stress phenomena in Si-chips bonded onto Cu substrates. , 2021, , .		1
3	Hybrid Sol-Gel Surface-Enhanced Raman Sensor for Xylene Detection in Solution. Sensors, 2021, 21, 7912.	3.8	2
4	Thermomechanical stress in GaNâ€LEDs soldered onto Cu substrates studied using finite element method and Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2083-2094.	2.5	11
5	Biocompatible Temperature nanosensors based on Titanium dioxide. , 2020, 60, .		1
6	Modelling Thermo-Mechanical Stress in GaN-LEDs Soldered on Copper Substrate with Simulations Validated by Raman Experiments. , 2019, , .		4
7	A Review on Surface-Enhanced Raman Scattering. Biosensors, 2019, 9, 57.	4.7	545
8	Fullerene functionalized gold nanoparticles for optical limiting of continuous wave lasers. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	7
9	Investigation of Thermomechanical Local Stress Induced in Assembled GaN LEDs. , 2019, , .		2
10	Thermomechanical local stress in assembled GaN LEDs investigated by Raman optical spectroscopy. , 2019, , .		2
11	Surface-Enhanced Raman Spectroscopy: Principles, Substrates, and Applications. , 2018, , 89-164.		13
12	Thermomechanical Stress in GaN LED Soldered on Copper Substrate Evaluated by Raman Measurements and Computer Modelling. , 2018, , .		10
13	Oxidation effects on the SERS response of silver nanoprism arrays. RSC Advances, 2017, 7, 369-378.	3.6	55
14	Engineering of Semiconductor Nanocrystals for Light Emitting Applications. Materials, 2016, 9, 672.	2.9	47
15	Photorefractive direct laser writing. Journal Physics D: Applied Physics, 2016, 49, 125103.	2.8	15
16	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
17	Evaluation of gold nanoparticles toxicity towards human endothelial cells under static and flow conditions. Microvascular Research, 2015, 97, 147-155.	2.5	64
18	Improving optical limiting of cw lasers with fullerene functionalized gold nanoparticles. Proceedings of SPIE, 2014, , .	0.8	0

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19	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
20	Sensitive detection of Ochratoxin A in food and drinks using metal-enhanced fluorescence. Biosensors and Bioelectronics, 2014, 57, 125-132.	10.1	35
21	Arylethynylâ€Substituted Tristriazolotriazines: Synthesis, Optical Properties, and Thermotropic Behavior. European Journal of Organic Chemistry, 2014, 2014, 3116-3126.	2.4	28
22	Gold nanoparticles in a polycarbonate matrix for optical limiting against a CW laser. Laser Physics, 2014, 24, 105901.	1.2	12
23	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
24	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
25	Green synthesis and electrophoretic deposition of Ag nanoparticles on SiO2/Si(100). Nanotechnology, 2013, 24, 345501.	2.6	4
26	Gold nanoparticles as optical limiting materials against cw lasers. , 2013, , .		4
27	Highly Luminescent and Temperature Stable Quantum Dot Thin Films Based on a ZnS Composite. Chemistry of Materials, 2012, 24, 2117-2126.	6.7	23
28	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
29	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
30	CdSe Coreâ^'Shell Nanoparticles as Active Materials for Up-Converted Emission. Journal of Physical Chemistry C, 2011, 115, 3840-3846.	3.1	16
31	Facile production of up-converted quantum dot lasers. Nanoscale, 2011, 3, 4109.	5.6	18
32	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
33	UV-Curable SiO₂â€“TiO₂ Films for the Realization of Diffractive Optical Elements. Journal of Nanoscience and Nanotechnology, 2011, 11, 195-199.	0.9	5
34	Silver Nanoparticle Arrays on a DVD-Derived Template: An easy&cheap SERS Substrate. Plasmonics, 2011, 6, 725-733.	3.4	41
35	Design, fabrication and characterization of plasmonic gratings for SERS. Microelectronic Engineering, 2011, 88, 2717-2720.	2.4	16
36	Synthesis of novel fullerene-functionalized polysulfones for optical limiting applications. Reactive and Functional Polymers, 2011, 71, 641-647.	4.1	14

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37	Strategy for the improvement of mixing in microdevices. Houille Blanche, 2011, 97, 79-85.	0.3	0
38	One- and two-photon pumped soft lithographed DFB laser systems based on semiconductor core-shell quantum dots. , 2010, , .		2
39	A fullereneâ€“distyrylbenzene photosensitizer for two-photon promoted singlet oxygen production. Physical Chemistry Chemical Physics, 2010, 12, 4656.	2.8	10
40	Photocatalytic Performance of Hybrid SiO₂â^'TiO₂ Films. Journal of Physical Chemistry C, 2010, 114, 7646-7652.	3.1	29
41	Amplified spontaneous emission from opal photonic crystals engineered with structural defects. Physical Chemistry Chemical Physics, 2009, 11, 11515.	2.8	18
42	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
43	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
44	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
45	Laser damage of glycidoxypropyltrimethoxysilane based hybrid materials. Journal of Non-Crystalline Solids, 2008, 354, 3317-3325.	3.1	1
46	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
47	Photonic devices based on patterning by two photon induced polymerization techniques. Proceedings of SPIE, 2008, , .	0.8	1
48	Photopolymerization of hybrid organic/inorganic materials based on nanostructured units for photonic applications. , 2007, 6645, 397.		2
49	New sol-gel materials for high energy applications in nonlinear optics. Proceedings of SPIE, 2007, , .	0.8	0
50	Two-photon absorption of Zn(ii) octupolar molecules. Physical Chemistry Chemical Physics, 2007, 9, 2999.	2.8	28
51	Luminescence and Amplified Stimulated Emission in CdSe-ZnS-Nanocrystal-Doped TiO2 and ZrO2 Waveguides. Advanced Functional Materials, 2007, 17, 1654-1662.	14.9	77
52	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
53	Synthesis of 3-glycidoxypropyltrimethoxysilane-TiO 2 UV-sensitive waveguides. , 2006, , .		0
54	Novel Heteroaromatic-Based Multi-Branched Dyes with Enhanced Two-Photon Absorption Activity. ChemInform, 2003, 34, no.	0.0	0

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55	Organic Functionalization and Optical Properties of Carbon Onions. Journal of the American Chemical Society, 2003, 125, 14268-14269.	13.7	93
56	Design and synthesis of heterocyclic multi-branched dyes for two-photon absorption. Synthetic Metals, 2003, 139, 795-797.	3.9	22
57	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
58	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
59	Optical limiting based on multiphoton processes in carbon nanostructures and heterocyclic quadrupolar molecules. , 2003, , .		4
60	Highly Efficient Multiphoton Absorption in a New Quadrupolar Heterocyclic Dye. , 2003, , 231-240.		0
61	Novel Heterocycle-Based Two-Photon Absorbing Dyes. , 2003, , 385-393.		0
62	Optical Limiting Applications. Developments in Fullerence Science, 2002, , 295-326.	0.5	5
63	Linear and nonlinear optical properties of fullerenes in solid state materials. Journal of Materials Chemistry, 2002, 12, 1964-1977.	6.7	73
64	Novel Heterocycle-Based Two-Photon Absorbing Dyes. Organic Letters, 2002, 4, 1495-1498.	4.6	195
65	Heterocycle-based materials for frequency-upconverted lasing. Synthetic Metals, 2001, 121, 1755-1756.	3.9	27
66	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 245-253.	2.4	14
67	Push-Pull Organic Chromophores for Frequency-Upconverted Lasing. Advanced Materials, 2000, 12, 1963-1967.	21.0	173
68	Optical limiting and non linear optical properties of fullerene derivatives embedded in hybrid solâ€“gel glasses. Carbon, 2000, 38, 1653-1662.	10.3	56
69	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
70	3-(Glycidoxypropyl)-trimethoxysilaneâ€“TiO2 hybrid organicâ€“inorganic materials for optical limiting. Journal of Non-Crystalline Solids, 2000, 265, 68-74.	3.1	51
71	Pushâ€“Pull Organic Chromophores for Frequency-Upconverted Lasing. Advanced Materials, 2000, 12, 1963-1967.	21.0	3
72	Molecular and Material Engineering for Optical Limiting with Fullerene Based Sol-Gel Materials. , 2000, , 83-98.		2

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73	Optical limiting materials based on fullerene derivatives. , 1999, , .		0
74	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
75	Optical limiting of multilayer sol-gel structures containing fullerenes. Synthetic Metals, 1999, 103, 2474-2475.	3.9	10
76	Novel hybrid organic-inorganic sol-gel materials based on highly efficient heterocyclic push-pull chromophores. , 1999, 3803, 18.		5
77	Î³(glicydoxypropyl)-trymethoxysilane-based matrices tailored for optical limiting applications. , 1999, , .		5
78	Longitudinally two-photon pumped leaky waveguide dye film laser. IEEE Journal of Quantum Electronics, 1998, 34, 7-13.	1.9	37
79	Two-photon-pumped frequency-upconverted blue lasing in Coumarin dye solution. Applied Optics, 1998, 37, 5720.	2.1	65
80	Sol-gel materials embedding fullerene derivatives for optical limiting. Synthetic Metals, 1997, 86, 2353-2354.	3.9	28
81	Preparation and characterization of fullerences containing sol-gel glass. Journal of Sol-Gel Science and Technology, 1997, 8, 609-613.	2.4	7
82	Optical limiting properties of soluble fullerene derivatives for incorporation in solâ€“gel materials. Chemical Communications, 1996, , 1891-1892.	4.1	49
83	‹title›Fullerene derivatives embedded in sol-gel materials for optical limiting‹/title›. , 1996, 2854, 130.		6
84	Optical Limiting of Fullerene Derivatives Embedded in Sol-Gel Materials. , 1996, , 159-174.		8
85	C60 derivatives embedded in sol-gel silica films. Advanced Materials, 1995, 7, 404-406.	21.0	86
86	Michael and substitution reactions of bicyclic tetronic, tetramic and thiotetronic esters.. Tetrahedron, 1994, 50, 8237-8252.	1.9	9
87	Substitution and Michael reactions of bicyclic tetronic, tetramic and thiotetronic esters. Journal of the Chemical Society Perkin Transactions 1, 1993, , 1831.	0.9	2