

Marco Cannas

List of Publications by Year in descending order

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262
papers

4,606
citations

101543

36
h-index

168389

53
g-index

264
all docs

264
docs citations

264
times ranked

4090
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of radiation induced point defects in silica-based optical fibers. <i>Reviews in Physics</i> , 2019, 4, 100032.	8.9	208
2	Solvatochromism Unravels the Emission Mechanism of Carbon Nanodots. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3419-3423.	4.6	179
3	Decomposition Process of Carboxylate MOF HKUST-1 Unveiled at the Atomic Scale Level. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12879-12889.	3.1	99
4	Luminescence mechanisms of defective ZnO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16237-16244.	2.8	89
5	Radiation Effects on Silica-Based Preforms and Optical Fibers: Experimental Study With Canonical Samples. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 3473-3482.	2.0	85
6	Instantaneous diffusion effect on spin-echo decay: Experimental investigation by spectral selective excitation. <i>Physical Review B</i> , 2001, 64, .	3.2	76
7	$\text{I}^2\text{-C}_{3\text{N}_4}$ Nanocrystals: Carbon Dots with Extraordinary Morphological, Structural, and Optical Homogeneity. <i>Chemistry of Materials</i> , 2018, 30, 1695-1700.	6.7	76
8	Bright Visible Luminescence in Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19476-19481.	3.1	74
9	Combined High Dose and Temperature Radiation Effects on Multimode Silica-Based Optical Fibers. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 4305-4313.	2.0	71
10	Importance of Spin-Orbit Interaction for the Electron Spin Relaxation in Organic Semiconductors. <i>Physical Review Letters</i> , 2013, 110, 216602.	7.8	62
11	Highly Homogeneous Biotinylated Carbon Nanodots: Red-Emitting Nanoheaters as Theranostic Agents toward Precision Cancer Medicine. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19854-19866.	8.0	61
12	Visible-ultraviolet vibronic emission of silica nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22028-22034.	2.8	60
13	ESR and PL centers induced by gamma rays in silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 116, 373-377.	1.4	56
14	Investigation by Raman Spectroscopy of the Decomposition Process of HKUST-1 upon Exposure to Air. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-7.	1.3	56
15	A 1.9 eV photoluminescence induced by 4 eV photons in high-purity wet synthetic silica. <i>Journal of Applied Physics</i> , 1993, 74, 6993-6995.	2.5	55
16	Radiation tolerant fiber Bragg gratings for high temperature monitoring at MGy dose levels. <i>Optics Letters</i> , 2014, 39, 5313.	3.3	54
17	Tailoring the Emission Color of Carbon Dots through Nitrogen-Induced Changes of Their Crystalline Structure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19897-19903.	3.1	54
18	Unraveling exciton dynamics in amorphous silicon dioxide: Interpretation of the optical features from 8 to 11 eV. <i>Physical Review B</i> , 2011, 83, .	3.2	53

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19	Fluorescent nitrogen-rich carbon nanodots with an unexpected $\text{I}^2\text{-C}_{₃\text{N}_{₄}$ nanocrystalline structure. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2598-2605.	5.5	53
20	Spectral and kinetic properties of the 4.4-eV photoluminescence band in $\alpha\text{-SiO}_2$: Effects of I^3 irradiation. <i>Physical Review B</i> , 1996, 54, 6194-6199.	3.2	52
21	Luminescence of the surface nonbridging oxygen hole center in silica: Spectral and decay properties. <i>Physical Review B</i> , 2008, 78, .	3.2	50
22	Strain, Doping, and Electronic Transport of Large Area Monolayer $\text{MoS}_{₂}$ Exfoliated on Gold and Transferred to an Insulating Substrate. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31248-31259.	8.0	49
23	Conformational disorder in vitreous systems probed by photoluminescence activity in SiO_2 . <i>Physical Review B</i> , 1999, 60, 11475-11481.	3.2	47
24	Thermal oxidative process in extra-virgin olive oils studied by FTIR, rheology and time-resolved luminescence. <i>Food Chemistry</i> , 2011, 126, 1226-1231.	8.2	47
25	The interaction of photoexcited carbon nanodots with metal ions disclosed down to the femtosecond scale. <i>Nanoscale</i> , 2017, 9, 11902-11911.	5.6	47
26	Influence of Drawing Conditions on the Properties and Radiation Sensitivities of Pure-Silica-Core Optical Fibers. <i>Journal of Lightwave Technology</i> , 2012, 30, 1726-1732.	4.6	46
27	Vacuum ultraviolet excitation of the 1.9-eV emission band related to nonbridging oxygen hole centers in silica. <i>Physical Review B</i> , 2004, 69, .	3.2	44
28	Structural relaxation of E^{\prime} centers in amorphous silica. <i>Physical Review B</i> , 2002, 66, .	3.2	43
29	Evolution of Photo-induced defects in Ge-doped fiber/preform: influence of the drawing. <i>Optics Express</i> , 2011, 19, 11680.	3.4	42
30	Graphene p-Type Doping and Stability by Thermal Treatments in Molecular Oxygen Controlled Atmosphere. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22718-22723.	3.1	41
31	Characteristics of industrially manufactured amorphous hydrogenated carbon (a-C:H) depositions on high-density polyethylene. <i>Carbon</i> , 2016, 96, 661-671.	10.3	41
32	Radiation induced generation of non-bridging oxygen hole center in silica: Intrinsic and extrinsic processes. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 586-589.	3.1	40
33	Real time monitoring of water level and temperature in storage fuel pools through optical fibre sensors. <i>Scientific Reports</i> , 2017, 7, 8766.	3.3	40
34	Influence of neutron and gamma-ray irradiations on rad-hard optical fiber. <i>Optical Materials Express</i> , 2015, 5, 898.	3.0	39
35	Development of a Temperature Distributed Monitoring System Based On Raman Scattering in Harsh Environment. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 3315-3322.	2.0	38
36	Luminescent silicon nanocrystals produced by near-infrared nanosecond pulsed laser ablation in water. <i>Applied Surface Science</i> , 2014, 302, 62-65.	6.1	37

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37	Different natures of surface electronic transitions of carbon nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22670-22677.	2.8	37
38	One-pot synthesis of graphene quantum dots and simultaneous nanostructured self-assembly via a novel microwave-assisted method: impact on triazine removal and efficiency monitoring. <i>RSC Advances</i> , 2018, 8, 29939-29946.	3.6	35
39	$\hat{\gamma}$ -ray-induced bleaching in silica: Conversion from optical to paramagnetic defects. <i>Physical Review B</i> , 2000, 61, 1946-1951.	3.2	33
40	Luminescence properties of nonbridging oxygen hole centers at the silica surface. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1020-1023.	3.1	33
41	Vulnerability of OFDR-based distributed sensors to high $\hat{\gamma}$ -ray doses. <i>Optics Express</i> , 2015, 23, 18997.	3.4	33
42	Radiation Effects on Silica-Based Preforms and Optical Fibers-II: Coupling <i>Ab initio</i> Simulations and Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 3508-3514.	2.0	32
43	Design of Radiation-Hardened Rare-Earth Doped Amplifiers Through a Coupled Experiment/Simulation Approach. <i>Journal of Lightwave Technology</i> , 2013, 31, 1247-1254.	4.6	32
44	Spectroscopic parameters related to non-bridging oxygen hole centers in amorphous-SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 203-208.	3.1	31
45	Evidence of Delocalized Excitons in Amorphous Solids. <i>Physical Review Letters</i> , 2010, 105, 116401.	7.8	31
46	Non-Bloch Transients in Solids: Free Induction Decay and Transient Nutations. <i>Physical Review Letters</i> , 1997, 79, 2963-2966.	7.8	30
47	Sol-Gel GeO ₂ -Doped SiO ₂ Glasses for Optical Applications. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 915-918.	2.4	30
48	Competitive relaxation processes of oxygen deficient centers in silica. <i>Physical Review B</i> , 2003, 67, .	3.2	30
49	Radiation effects on optical frequency domain reflectometry fiber-based sensor. <i>Optics Letters</i> , 2015, 40, 4571.	3.3	30
50	Barrier inhomogeneity in vertical Schottky diodes on free standing gallium nitride. <i>Materials Science in Semiconductor Processing</i> , 2019, 94, 164-170.	4.0	30
51	Generation and excitation of point defects in silica by synchrotron radiation above the absorption edge. <i>Physical Review B</i> , 2010, 81, .	3.2	29
52	Monolayer graphene doping and strain dynamics induced by thermal treatments in controlled atmosphere. <i>Carbon</i> , 2018, 127, 270-279.	10.3	29
53	Homogeneous and inhomogeneous contributions to the luminescence linewidth of point defects in amorphous solids: Quantitative assessment based on time-resolved emission spectroscopy. <i>Physical Review B</i> , 2008, 78, .	3.2	28
54	Temperature and excitation energy dependence of decay processes of luminescence in Ge-doped silica. <i>Physical Review B</i> , 2003, 68, .	3.2	27

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55	Optical properties of phosphorus-related point defects in silica fiber preforms. <i>Physical Review B</i> , 2009, 80, .	3.2	27
56	Experimental evidence of the composite nature of the 3.1 eV luminescence in natural silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 116, 360-363.	1.4	26
57	Effect of air on oxygen p-doped graphene on SiO ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2341-2344.	1.8	26
58	Structural and luminescence properties of amorphous SiO ₂ nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1941-1944.	3.1	25
59	Interstitial O ₂ distribution in amorphous SiO ₂ nanoparticles determined by Raman and photoluminescence spectroscopy. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	25
60	A Comparative Study of Top-Down and Bottom-Up Carbon Nanodots and Their Interaction with Mercury Ions. <i>Nanomaterials</i> , 2021, 11, 1265.	4.1	25
61	Substrate impact on the thickness dependence of vibrational and optical properties of large area MoS ₂ produced by gold-assisted exfoliation. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	25
62	Luminescence features of nonbridging oxygen hole centres in silica probed by site-selective excitation with tunable laser. <i>Solid State Communications</i> , 2008, 146, 148-151.	1.9	24
63	Luminescence of ³¹ P-radiation-induced defects in α -quartz. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 7931-7939.	1.8	23
64	Coupled Theoretical and Experimental Studies for the Radiation Hardening of Silica-Based Optical Fibers. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 1819-1825.	2.0	23
65	Transient nutations decay: The effect of field-modified dipolar interaction. <i>Physical Review A</i> , 1999, 59, 4087-4090.	2.5	22
66	Phonon coupling of non-bridging oxygen hole center with the silica environment: Temperature dependence of the 1.9eV emission spectra. <i>Journal of Luminescence</i> , 2008, 128, 1132-1136.	3.1	22
67	Radiation Vulnerability of Fiber Bragg Gratings in Harsh Environments. <i>Journal of Lightwave Technology</i> , 2015, 33, 2646-2651.	4.6	22
68	Evolution of the sp ² content and revealed multilayer growth of amorphous hydrogenated carbon (a-C:H) films on selected thermoplastic materials. <i>Carbon</i> , 2017, 117, 351-359.	10.3	22
69	Irradiation induced defects in fluorine doped silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2918-2922.	1.4	21
70	X-ray irradiation effects on a multistep Ge-doped silica fiber produced using different drawing conditions. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1966-1970.	3.1	21
71	Synthesis of multi-color luminescent ZnO nanoparticles by ultra-short pulsed laser ablation. <i>Applied Surface Science</i> , 2020, 506, 144954.	6.1	21
72	UV photobleaching of carbon nanodots investigated by <i>in situ</i> optical methods. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13398-13407.	2.8	21

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73	Role of vitreous matrix on the optical activity of Ge-doped silica. Journal of Physics and Chemistry of Solids, 2003, 64, 2437-2443.	4.0	20
74	Influence of the drawing process on the defect generation in multistep-index germanium-doped optical fibers. Optics Letters, 2009, 34, 2282.	3.3	20
75	Spectroscopic studies of the origin of radiation-induced degradation in phosphorus-doped optical fibers and preforms. Journal of Applied Physics, 2010, 108, .	2.5	20
76	Photoluminescence at 1.9 eV in synthetic wet silica. Journal of Non-Crystalline Solids, 2001, 280, 183-187.	3.1	19
77	Character of the Reaction between Molecular Hydrogen and a Silicon Dangling Bond in Amorphous SiO ₂ . Journal of Physical Chemistry C, 2007, 111, 6663-6667.	3.1	19
78	Origin of the visible absorption in radiation-resistant optical fibers. Optical Materials Express, 2013, 3, 1769.	3.0	19
79	Effects of Radiation and Hydrogen-Loading on the Performances of Raman-Distributed Temperature Fiber Sensors. Journal of Lightwave Technology, 2015, 33, 2432-2438.	4.6	19
80	Photoluminescence of Si nanocrystals embedded in : Excitation/emission mapping. Physica Status Solidi (B): Basic Research, 2015, 252, 600-606.	1.5	19
81	Ultrafast spectroscopic investigation on fluorescent carbon nanodots: the role of passivation. Physical Chemistry Chemical Physics, 2019, 21, 16459-16467.	2.8	19
82	Low temperature photoluminescence spectroscopy relationship between 3.1 and 4.2 eV bands in vitreous silica. Journal of Non-Crystalline Solids, 1997, 216, 105-110.	3.1	18
83	Generation of defects in amorphous SiO ₂ assisted by two-step absorption on impurity sites. Journal of Physics Condensed Matter, 2008, 20, 275210.	1.8	18
84	Near-Infrared Emission of O ₂ Embedded in Amorphous SiO ₂ Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 12831-12835.	3.1	18
85	Post UV irradiation annealing of E ⁺ centers in silica controlled by H ₂ diffusion. Journal of Non-Crystalline Solids, 2004, 337, 9-14.	3.1	17
86	In situ observation of the generation and annealing kinetics of E ⁺ centres induced in amorphous SiO ₂ by 4.7 eV laser irradiation. Journal of Physics Condensed Matter, 2005, 17, 3837-3842.	1.8	17
87	Influence of the Manufacturing Process on the Radiation Sensitivity of Fluorine-Doped Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2012, 59, 760-766.	2.0	17
88	Gamma and x-ray irradiation effects on different Ge and Ge/F doped optical fibers. Journal of Applied Physics, 2015, 118, .	2.5	17
89	Nitrogen-doped carbon dots embedded in a SiO ₂ monolith for solid-state fluorescent detection of Cu ²⁺ ions. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	17
90	Origins of radiation-induced attenuation in pure-silica-core and Ge-doped optical fibers under pulsed x-ray irradiation. Journal of Applied Physics, 2020, 128, .	2.5	17

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91	Absorption band at 7.6 eV induced by $\hat{\gamma}$ -irradiation in silica glasses. Journal of Non-Crystalline Solids, 2001, 280, 188-192.	3.1	16
92	Optical absorption, luminescence, and ESR spectral properties of point defects in silica. , 2001, , 1-50.		16
93	Photochemical generation of $E\hat{a}^{\epsilon 2}$ centres from Si $\hat{a}^{\epsilon}H$ in amorphous SiO ₂ under pulsed ultraviolet laser radiation. Journal of Physics Condensed Matter, 2006, 18, 9967-9973.	1.8	16
94	Wide range excitation of visible luminescence in nanosilica. Solid State Communications, 2010, 150, 2278-2280.	1.9	16
95	Oxidation of Zn nanoparticles probed by online optical spectroscopy during nanosecond pulsed laser ablation of a Zn plate in H ₂ O. Applied Physics Letters, 2015, 107, .	3.3	16
96	Highly Efficient Electron Transfer in a Carbon Dot \hat{a}^{ϵ} Polyoxometalate Nanohybrid. Journal of Physical Chemistry Letters, 2020, 11, 4379-4384.	4.6	16
97	Disclosing the emissive surface traps in green-emitting carbon nanodots. Carbon, 2021, 173, 454-461.	10.3	16
98	Radiation Hardened Optical Frequency Domain Reflectometry Distributed Temperature Fiber-Based Sensors. IEEE Transactions on Nuclear Science, 2015, 62, 2988-2994.	2.0	15
99	Radiation Characterization of Optical Frequency Domain Reflectometry Fiber-Based Distributed Sensors. IEEE Transactions on Nuclear Science, 2016, 63, 1688-1693.	2.0	15
100	Substrate and atmosphere influence on oxygen p-doped graphene. Carbon, 2016, 107, 696-704.	10.3	15
101	Near-IR- and UV-femtosecond laser waveguide inscription in silica glasses. Optical Materials Express, 2019, 9, 4624.	3.0	15
102	Decagram-Scale Synthesis of Multicolor Carbon Nanodots: Self-Tracking Nanoheaters with Inherent and Selective Anticancer Properties. ACS Applied Materials & Interfaces, 2022, 14, 2551-2563.	8.0	15
103	Multiscale Investigation of the Structural, Electrical and Photoluminescence Properties of MoS ₂ Obtained by MoO ₃ Sulfurization. Nanomaterials, 2022, 12, 182.	4.1	15
104	Hydrogen-related conversion processes of Ge-related point defects in silica triggered by ultraviolet laser irradiation. Physical Review B, 2005, 72, .	3.2	14
105	Vibrational properties of the surface-nonbridging oxygen in silica nanoparticles. Physical Review B, 2008, 78, .	3.2	14
106	The structural disorder of a silica network probed by site selective luminescence of the nonbridging oxygen hole centre. Journal of Physics Condensed Matter, 2010, 22, 235801.	1.8	14
107	Influence of Ce codoping and H ₂ pre-loading on Er/Yb-doped fiber: Radiation response characterized by Confocal Micro-Luminescence. Journal of Non-Crystalline Solids, 2011, 357, 1963-1965.	3.1	14
108	Influence of $\{m Ce\}^{\{3+\}}$ Codoping on the Photoluminescence Excitation Channels of Phosphosilicate Yb/Er-Doped Glasses. IEEE Photonics Technology Letters, 2012, 24, 509-511.	2.5	14

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109	Photoluminescence band at 4.4 eV in oxygen-deficient silica: temperature effects. Journal of Physics Condensed Matter, 1996, 8, L545-L549.	1.8	13
110	Intrinsic defects induced by $\hat{\Gamma}^2$ -irradiation in silica. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 387-391.	1.4	13
111	Ultraviolet emission lifetime in Si and Ge oxygen deficient centers in silica. Journal of Non-Crystalline Solids, 2003, 322, 129-133.	3.1	13
112	Effects induced by UV laser radiation on the blue luminescence of silica nanoparticles. Journal of Luminescence, 2013, 138, 39-43.	3.1	13
113	Self-limiting and complete oxidation of silicon nanostructures produced by laser ablation in water. Journal of Applied Physics, 2016, 120, .	2.5	13
114	In-situ monitoring by Raman spectroscopy of the thermal doping of graphene and MoS ₂ in O ₂ -controlled atmosphere. Beilstein Journal of Nanotechnology, 2017, 8, 418-424.	2.8	13
115	Gamma ray induced 11.8 mT ESR doublet in natural silica. Journal of Non-Crystalline Solids, 1998, 232-234, 323-328.	3.1	12
116	Existence of Metastable Intermediate Lysozyme Conformation Highlights the Role of Alcohols in Altering Protein Stability. Journal of Physical Chemistry B, 2011, 115, 4078-4087.	2.6	12
117	Influence of fluorine on the fiber resistance studied through the nonbridging oxygen hole center related luminescence. Journal of Applied Physics, 2013, 113, 193107.	2.5	12
118	Investigation of Coating Impact on OFDR Optical Remote Fiber-Based Sensors Performances for Their Integration in High Temperature and Radiation Environments. Journal of Lightwave Technology, 2016, 34, 4460-4465.	4.6	12
119	On-Line Characterization of Gamma Radiation Effects on Single-Ended Raman Based Distributed Fiber Optic Sensor. IEEE Transactions on Nuclear Science, 2016, 63, 2051-2057.	2.0	12
120	Photoluminescence of Carbon Dots Embedded in a SiO ₂ Matrix. Materials Today: Proceedings, 2016, 3, S258-S265.	1.8	12
121	Metal/Semiconductor Barrier Properties of Non-Recessed Ti/Al/Ti and Ta/Al/Ta Ohmic Contacts on AlGaIn/GaN Heterostructures. Energies, 2019, 12, 2655.	3.1	12
122	Influence of oxide substrates on monolayer graphene doping process by thermal treatments in oxygen. Carbon, 2019, 149, 546-555.	10.3	12
123	Stationary and time dependent PL emission of ν -SiO ₂ in the UV range. Journal of Non-Crystalline Solids, 1997, 216, 99-104.	3.1	11
124	Photoluminescence activity in natural silica excited in the vacuum-UV range. Journal of Non-Crystalline Solids, 1999, 245, 190-195.	3.1	11
125	The landscape of the excitation profiles of the $\hat{\Gamma}^{\pm E}$ and $\hat{\Gamma}^2$ emission bands in silica. Journal of Non-Crystalline Solids, 1999, 245, 196-202.	3.1	11
126	Ge related centers induced by gamma irradiation in sol-gel Ge-doped silica. Journal of Non-Crystalline Solids, 2003, 322, 134-138.	3.1	11

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127	Defect-related visible luminescence of silica nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 658-661.	0.8	11
128	Evaluation of Distributed OFDR-Based Sensing Performance in Mixed Neutron/Gamma Radiation Environments. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 61-67.	2.0	11
129	Radiation Effects on Aluminosilicate Optical Fibers: Spectral Investigations From the Ultraviolet to Near-Infrared Domains. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800485.	1.8	11
130	Experimental evidence of different contributions to the photoluminescence at 4.4 eV in synthetic silica. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 721-731.	1.8	10
131	Room Temperature Instability of E^{\prime} Centers Induced by γ Irradiation in Amorphous SiO ₂ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 1026-1032.	2.5	10
132	Enhancing the luminescence efficiency of silicon-nanocrystals by interaction with H ⁺ ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10445-10449.	2.8	10
133	Direct Atomic Layer Deposition of Ultrathin Aluminum Oxide on Monolayer MoS ₂ Exfoliated on Gold: The Role of the Substrate. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101117.	3.7	10
134	Growth of H(II) centers in natural silica after UV laser exposure. <i>Journal of Non-Crystalline Solids</i> , 2003, 322, 90-94.	3.1	9
135	Photoluminescence in γ -irradiated α -quartz investigated by synchrotron radiation. <i>Radiation Measurements</i> , 2004, 38, 507-510.	1.4	9
136	Ultraviolet-induced paramagnetic centers and absorption changes in singlemode Ge-doped optical fibers. <i>Optics Express</i> , 2006, 14, 5885.	3.4	9
137	Time resolved photoluminescence associated with non-bridging oxygen hole centers in irradiated silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2945-2948.	1.4	9
138	Raman investigation of the drawing effects on Ge-doped fibers. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 24-27.	3.1	9
139	Micro-Raman investigation of X or γ irradiated Ge doped fibers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 1346-1349.	1.4	9
140	Dynamic Modification of Fermi Energy in Single-Layer Graphene by Photoinduced Electron Transfer from Carbon Dots. <i>Nanomaterials</i> , 2020, 10, 528.	4.1	9
141	Steady-State X-Ray Radiation-Induced Attenuation in Canonical Optical Fibers. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1650-1657.	2.0	9
142	Intrinsic Point Defects in Silica for Fiber Optics Applications. <i>Materials</i> , 2021, 14, 7682.	2.9	9
143	Local dynamic properties of vitreous silica probed by photoluminescence spectroscopy in the temperature range 300-4.5 K. <i>Journal of Non-Crystalline Solids</i> , 1998, 232-234, 514-519.	3.1	8
144	Nd:YAG laser induced E^{\prime} centers probed by in situ absorption measurements. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1780-1783.	3.1	8

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145	Ag nanoparticles agargel nanocomposites for SERS detection of cultural heritage interest pigments. European Physical Journal Plus, 2018, 133, 1.	2.6	8
146	Near-IR Radiation-Induced Attenuation of Aluminosilicate Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000807.	1.8	8
147	Bleaching of optical activity induced by UV laser exposure in natural silica. Journal of Non-Crystalline Solids, 2004, 345-346, 433-437.	3.1	7
148	Stability of E ² centers induced by 4.7eV laser radiation in SiO ₂ . Journal of Non-Crystalline Solids, 2007, 353, 522-525.	3.1	7
149	Excitation processes of the blue luminescence in crystalline SiO ₂ probed by synchrotron radiation measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 968-971.	0.8	7
150	Inhomogeneous width of oxygen-deficient centers induced by electron irradiation of silica. Physical Review B, 2009, 79, .	3.2	7
151	Phosphorous doping and drawing effects on the Raman spectroscopic properties of O = P bond in silica-based fiber and preform. Optical Materials Express, 2012, 2, 1391.	3.0	7
152	Electrical-optical characterization of multijunction solar cells under 2000X concentration. AIP Conference Proceedings, 2014, , .	0.4	7
153	Controlling the oxidation processes of Zn nanoparticles produced by pulsed laser ablation in aqueous solution. Journal of Applied Physics, 2016, 120, .	2.5	7
154	Optical Frequency Domain Reflectometer Distributed Sensing Using Microstructured Pure Silica Optical Fibers Under Radiations. IEEE Transactions on Nuclear Science, 2016, 63, 2038-2045.	2.0	7
155	Resonance Raman of oxygen dangling bonds in amorphous silicon dioxide. Journal of Raman Spectroscopy, 2017, 48, 230-234.	2.5	7
156	Pulsed X-Ray Radiation Responses of Solarization-Resistant Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800487.	1.8	7
157	Transient and Steady-State Radiation Response of Phosphosilicate Optical Fibers: Influence of H ₂ Loading. IEEE Transactions on Nuclear Science, 2020, 67, 289-295.	2.0	7
158	Generation of a 7.4 mT ESR doublet induced by ⁶⁰ Co rays in amorphous-SiO ₂ . Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 465-469.	1.4	6
159	Creation of paramagnetic defects by gamma irradiation in amorphous silica. Applied Magnetic Resonance, 2000, 19, 579-585.	1.2	6
160	UV and vacuum-UV properties of ge related centers in gamma irradiated silica. Radiation Effects and Defects in Solids, 2002, 157, 615-619.	1.2	6
161	Post-irradiation kinetics of UV laser induced defects in silica. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 401-405.	1.4	6
162	Spectral heterogeneity of oxygen-deficient centers in Ge-doped silica. Radiation Measurements, 2004, 38, 645-648.	1.4	6

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