Simonpietro Agnello

List of Publications by Year
in descending order

211 papers	3,732 citations	136740 32 h-index	214527 47 g-index
230 all docs	230 docs citations	230 times ranked	3656 citing authors

#	Article	IF	Citations
1	Multiscale Investigation of the Structural, Electrical and Photoluminescence Properties of MoS2 Obtained by MoO3 Sulfurization. Nanomaterials, 2022, 12, 182.	1.9	15
2	O2 Loaded Germanosilicate Optical Fibers: Experimental In Situ Investigation and Ab Initio Simulation Study of GLPC Evolution under Irradiation. Applied Sciences (Switzerland), 2022, 12, 3916.	1.3	0
3	Photocycle of point defects in highly- and weakly-germanium doped silica revealed by transient absorption measurements with femtosecond tunable pump. Scientific Reports, 2022, 12, .	1.6	1
4	Ultraviolet-visible light-induced solarisation in silica-based optical fibres for indoor solar applications. Journal of Non-Crystalline Solids, 2021, 552, 120458.	1.5	3
5	Micro-photoluminescence of Carbon Dots Deposited on Twisted Double-Layer Graphene Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2021, 13, 7324-7333.	4.0	3
6	A Comparative Study of Top-Down and Bottom-Up Carbon Nanodots and Their Interaction with Mercury Ions. Nanomaterials, 2021, 11, 1265.	1.9	25
7	Fluorescent Carbon Nanodots as Sensors of Toxic Metal Ions and Pesticides. Engineering Proceedings, 2021, 6, .	0.4	1
8	Strain, Doping, and Electronic Transport of Large Area Monolayer MoS₂ Exfoliated on Gold and Transferred to an Insulating Substrate. ACS Applied Materials & Interfaces, 2021, 13, 31248-31259.	4.0	49
9	Structure Effects Induced by High Mechanical Compaction of STAMâ€17â€OEt MOF Powders. European Journal of Inorganic Chemistry, 2021, 2021, 2334-2342.	1.0	5
10	Performance Analysis of a Prototype Highâ€Concentration Photovoltaic System Coupled to Silica Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100027.	0.8	1
11	Substrate impact on the thickness dependence of vibrational and optical properties of large area MoS2 produced by gold-assisted exfoliation. Applied Physics Letters, 2021, 119, .	1.5	25
12	Controlled solution-based fabrication of perovskite thin films directly on conductive substrate. Thin Solid Films, 2021, 733, 138806.	0.8	5
13	Direct Atomic Layer Deposition of Ultrathin Aluminum Oxide on Monolayer MoS₂ Exfoliated on Gold: The Role of the Substrate. Advanced Materials Interfaces, 2021, 8, 2101117.	1.9	10
14	Ultrafast Interface Charge Separation in Carbon Nanodotâ€“Nanotube Hybrids. ACS Applied Materials & Interfaces, 2021, 13, 49232-49241.	4.0	5
15	Sensing of Transition Metals by Top-Down Carbon Dots. Applied Sciences (Switzerland), 2021, 11, 10360.	1.3	3
16	Intrinsic Point Defects in Silica for Fiber Optics Applications. Materials, 2021, 14, 7682.	1.3	9
17	Folic acid-functionalized graphene oxide nanosheets via plasma etching as a platform to combine NIR anticancer phototherapy and targeted drug delivery. Materials Science and Engineering C, 2020, 107, 110201.	3.8	63
18	Synthesis of multi-color luminescent ZnO nanoparticles by ultra-short pulsed laser ablation. Applied Surface Science, 2020, 506, 144954.	3.1	21

#	Article	IF	Citations
19	Aluminum oxide nucleation in the early stages of atomic layer deposition on epitaxial graphene. Carbon, 2020, 169, 172-181.	5.4	22
20	Structural and CO₂ Capture Properties of Ethylenediamine-Modified HKUST-1 Metalâ€“Organic Framework. Crystal Growth and Design, 2020, 20, 5455-5465.	1.4	35
21	Optical and Electronic Properties of Carbon-Based Nanomaterials and Composites. Journal of Carbon Research, 2020, 6, 36.	1.4	4
22	Dynamic Modification of Fermi Energy in Single-Layer Graphene by Photoinduced Electron Transfer from Carbon Dots. Nanomaterials, 2020, 10, 528.	1.9	9
23	High-Efficiency Multi-Junction Photovoltaic Cells in School Physics Laboratory. Physics Teacher, 2020, 58, 126-129.	0.2	3
24	Highly Efficient Electron Transfer in a Carbon Dotâ€“Polyoxometalate Nanohybrid. Journal of Physical Chemistry Letters, 2020, 11, 4379-4384.	2.1	16
25	Multitechnique Analysis of the Hydration in Three Different Copper Paddle-Wheel Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2019, 123, 28219-28232.	1.5	10
26	Two-Dimensional Carbon: A Review of Synthesis Methods, and Electronic, Optical, and Vibrational Properties of Single-Layer Graphene. Journal of Carbon Research, 2019, 5, 67.	1.4	38
27	Study of silica-based intrinsically emitting nanoparticles produced by an excimer laser. Beilstein Journal of Nanotechnology, 2019, 10, 211-221.	1.5	1
28	Influence of oxide substrates on monolayer graphene doping process by thermal treatments in oxygen. Carbon, 2019, 149, 546-555.	5.4	12
29	Overview of radiation induced point defects in silica-based optical fibers. Reviews in Physics, 2019, 4, 100032.	4.4	208
30	Seedâ€Layerâ€Free Atomic Layer Deposition of Highly Uniform Al₂O₃ Thin Films onto Monolayer Epitaxial Graphene on Silicon Carbide. Advanced Materials Interfaces, 2019, 6, 1900097.	1.9	24
31	The Relevance of Point Defects in Studying Silica-Based Materials from Bulk to Nanosystems. Electronics (Switzerland), 2019, 8, 1378.	1.8	3
32	Radiation Effects on Aluminosilicate Optical Fibers: Spectral Investigations From the Ultraviolet to Nearâ€Infrared Domains. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800485.	0.8	11
33	Unveiled the Source of the Structural Instability of HKUST-1 Powders upon Mechanical Compaction: Definition of a Fully Preserving Tableting Method. Journal of Physical Chemistry C, 2019, 123, 1730-1741.	1.5	15
34	Combined Temperature Radiation Effects and Influence of Drawing Conditions on Phosphorousâ€Doped Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800553.	0.8	13
35	Grapheneâ€SiO 2 Interaction from Composites to Doping. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800540.	0.8	5
36	Carbon Dots Dispersed on Graphene/SiO 2 /Si: A Morphological Study. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800559.	0.8	6

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37	Photoinduced charge transfer from Carbon Dots to Graphene in solid composite. Thin Solid Films, 2019, 669, 620-624.	0.8	6
38	Spectral properties and lifetime of green emission in Î³-ray irradiated bismuth-doped silica photonic crystal fibers. Journal of Non-Crystalline Solids, 2018, 482, 100-104.	1.5	1
39	Ag nanoparticles agargel nanocomposites for SERS detection of cultural heritage interest pigments. European Physical Journal Plus, 2018, 133, 1.	1.2	8
40	Monolayer graphene doping and strain dynamics induced by thermal treatments in controlled atmosphere. Carbon, 2018, 127, 270-279.	5.4	29
41	Inkjet printing Ag nanoparticles for SERS hot spots. Analytical Methods, 2018, 10, 3215-3223.	1.3	33
42	Tailoring the Emission Color of Carbon Dots through Nitrogen-Induced Changes of Their Crystalline Structure. Journal of Physical Chemistry C, 2018, 122, 19897-19903.	1.5	54
43	Evolution of the sp2 content and revealed multilayer growth of amorphous hydrogenated carbon (a-C:H) films on selected thermoplastic materials. Carbon, 2017, 117, 351-359.	5.4	22
44	Irradiation temperature effects on the induced point defects in Ge-doped optical fibers.. IOP Conference Series: Materials Science and Engineering, 2017, 169, 012008.	0.3	0
45	Environment assisted photoconversion of luminescent surface defects in SiO 2 nanoparticles. Applied Surface Science, 2017, 420, 94-99.	3.1	5
46	Coupled irradiation-temperature effects on induced point defects in germanosilicate optical fibers. Journal of Materials Science, 2017, 52, 10697-10708.	1.7	3
47	Ambipolar MoS₂ Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 23164-23174.	4.0	81
48	Nitrogen-doped carbon dots embedded in a SiO2 monolith for solid-state fluorescent detection of Cu2+ ions. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	17
49	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. Journal of Alloys and Compounds, 2017, 695, 2054-2064.	2.8	32
50	Resonance Raman of oxygen dangling bonds in amorphous silicon dioxide. Journal of Raman Spectroscopy, 2017, 48, 230-234.	1.2	7
51	Impact of contact resistance on the electrical properties of MoS₂ transistors at practical operating temperatures. Beilstein Journal of Nanotechnology, 2017, 8, 254-263.	1.5	35
52	In-situ monitoring by Raman spectroscopy of the thermal doping of graphene and MoS₂ in O₂-controlled atmosphere. Beilstein Journal of Nanotechnology, 2017, 8, 418-424.	1.5	13
53	Investigation by Raman Spectroscopy of the Decomposition Process of HKUST-1 upon Exposure to Air. Journal of Spectroscopy, 2016, 2016, 1-7.	0.6	56
54	Effect of irradiation temperature on the radiation induced attenuation of Ge-doped fibers. , 2016, , .		1

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55	Ge-doped silica nanoparticles: production and characterisation. Optical Materials Express, 2016, 6, 2213.	1.6	4
56	Controlling the oxidation processes of Zn nanoparticles produced by pulsed laser ablation in aqueous solution. Journal of Applied Physics, 2016, 120, .	1.1	7
57	Luminescence mechanisms of defective ZnO nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 16237-16244.	1.3	89
58	Fluorescent nitrogen-rich carbon nanodots with an unexpected Î²-C₃N₄nanocrystalline structure. Journal of Materials Chemistry C, 2016, 4, 2598-2605.	2.7	53
59	Synthesis and self-assembly of a PEGylated-graphene aerogel. Composites Science and Technology, 2016, 128, 193-200.	3.8	59
60	Morphological and Chemical Evolution of Gradually Deposited Diamond-Like Carbon Films on Polyethylene Terephthalate: From Subplantation Processes to Structural Reorganization by Intrinsic Stress Release Phenomena. ACS Applied Materials & Interfaces, 2016, 8, 10636-10646.	4.0	36
61	Evidence of different red emissions in irradiated germanosilicate materials. Journal of Luminescence, 2016, 177, 127-132.	1.5	5
62	Amorphous hydrogenated carbon (a-C:H) depositions on polyoxymethylene: Substrate influence on the characteristics of the developing coatings. Surface and Coatings Technology, 2016, 307, 658-665.	2.2	19
63	Insight into the defectâ€“molecule interaction through the molecular-like photoluminescence of SiO2 nanoparticles. RSC Advances, 2016, 6, 93010-93015.	1.7	6
64	Substrate and atmosphere influence on oxygen p-doped graphene. Carbon, 2016, 107, 696-704.	5.4	15
65	The thin and medium filters of the EPIC camera on-board XMM-Newton: measured performance after more than 15Âyears of operation. Experimental Astronomy, 2016, 42, 179-197.	1.6	5
66	Effect of temperatureâ€“bias annealing on the hysteresis and subthreshold behavior of multilayer MoS₂ transistors. Physica Status Solidi - Rapid Research Letters, 2016, 10, 797-801.	1.2	24
67	Effect of thermal annealing on the luminescence of defective ZnO nanoparticles synthesized by pulsed laser ablation in water. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 890-894.	0.8	4
68	Irradiation temperature influence on the in-situ measured radiation induced attenuation of Ge-doped fibers. IEEE Transactions on Nuclear Science, 2016, , 1-1.	1.2	3
69	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.	1.2	12
70	Effect of air on oxygen pâ€doped graphene on SiO₂. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2341-2344.	0.8	26
71	Characteristics of industrially manufactured amorphous hydrogenated carbon (a-C:H) depositions on high-density polyethylene. Carbon, 2016, 96, 661-671.	5.4	41
72	O₂-Loading Treatment of Ge-Doped Silica Fibers: A Radiation Hardening Process. Journal of Lightwave Technology, 2016, 34, 2311-2316.	2.7	16

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73	Radiation Response of Ce-Codoped Germanosilicate and Phosphosilicate Optical Fibers. IEEE Transactions on Nuclear Science, 2016, 63, 2058-2064.	1.2	27
74	Photoluminescence of Carbon Dots Embedded in a SiO2 Matrix. Materials Today: Proceedings, 2016, 3, S258-S265.	0.9	12
75	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. Journal of Alloys and Compounds, 2016, 664, 428-438.	2.8	39
76	Current injection from metal to MoS2 probed at nanoscale by conductive atomic force microscopy. Materials Science in Semiconductor Processing, 2016, 42, 174-178.	1.9	12
77	Nanoscale inhomogeneity of the Schottky barrier and resistivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>multilayers. Physical Review B, 2015, 92, .	1.1	69
78	Gamma and x-ray irradiation effects on different Ge and Ge/F doped optical fibers. Journal of Applied Physics, 2015, 118, .	1.1	17
79	Combined heat and power generation with a HCPV system at 2000 suns. AIP Conference Proceedings, 2015, , .	0.3	6
80	CHP efficiency of a 2000 Ã— CPV system with reflective optics. AIP Conference Proceedings, 2015, , .	0.3	5
81	Î²-ray irradiation effects on silica nanoparticles. IOP Conference Series: Materials Science and Engineering, 2015, 80, 012011.	0.3	1
82	Silica nanoparticle core structure examined by the Eâ€²Siî³ center 29Si strong hyperfine interaction. Journal of Non-Crystalline Solids, 2015, 423-424, 41-44.	1.5	3
83	Effects of Pressure, Thermal Treatment, and O₂ Loading in MCM41, MSU-H, and MSU-F Mesoporous Silica Systems Probed by Raman Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 27434-27441.	1.5	5
84	Surface morphology and grain analysis of successively industrially grown amorphous hydrogenated carbon films (a-C:H) on silicon. Applied Surface Science, 2015, 347, 657-667.	3.1	47
85	Graphene p-Type Doping and Stability by Thermal Treatments in Molecular Oxygen Controlled Atmosphere. Journal of Physical Chemistry C, 2015, 119, 22718-22723.	1.5	41
86	Influence of <formula formulatype="inline"><tex Notation="TeX">${hbox{O}}_2$</tex></formula>-Loading Pretreatment on the Radiation Response of Pure and Fluorine-Doped Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2014, 61, 3302-3308.	1.2	17
87	Diffusion and outgassing of O<inf>2</inf> in amorphous SiO<inf>2</inf> silica nanoparticles with specific surface properties. , 2014, , .		0
88	Electrical-optical characterization of multijunction solar cells under 2000X concentration. AIP Conference Proceedings, 2014, , .	0.3	7
89	Aging of MCM41, MSU-H and MSU-F mesoporous systems investigated through the Raman spectroscopy. , 2014, , .		0
90	Direct sunlight facility for testing and research in HCPV. , 2014, , .		6

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91	X-ray irradiation effects on fluorine-doped germanosilicate optical fibers. Optical Materials Express, 2014, 4, 1683.	1.6	28
92	Near infrared radio-luminescence of O2 loaded radiation hardened silica optical fibers: A candidate dosimeter for harsh environments. Applied Physics Letters, 2014, 105, .	1.5	13
93	Micro-Raman characterization of graphene grown on SiC(000-1). , 2014, , .		0
94	Properties of HO 2 â€¢ radicals induced by Î³-ray irradiation in silica nanoparticles. Journal of Non-Crystalline Solids, 2014, 405, 116-123.	1.5	0
95	Visible-ultraviolet vibronic emission of silica nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 22028-22034.	1.3	60
96	Isolation of the CH₃Ë™ rotor in a thermally stable inert matrix: first characterization of the gradual transition from classical to quantum behaviour at low temperatures. Physical Chemistry Chemical Physics, 2014, 16, 13360-13366.	1.3	8
97	Thermally induced structural modifications and O 2 trapping in highly porous silica nanoparticles. Materials Chemistry and Physics, 2014, 148, 956-963.	2.0	3
98	Diffusive Equilibrium Properties of O2 in Amorphous SiO2 Nanoparticles Probed via Dependence of Concentration on Size and Pressure. Journal of Physical Chemistry C, 2014, 118, 18044-18050.	1.5	1
99	Alpha and deuteron irradiation effects on silica nanoparticles. Journal of Materials Science, 2014, 49, 6475-6484.	1.7	4
100	Coupled Theoretical and Experimental Studies for the Radiation Hardening of Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2014, 61, 1819-1825.	1.2	23
101	Luminescent silicon nanocrystals produced by near-infrared nanosecond pulsed laser ablation in water. Applied Surface Science, 2014, 302, 62-65.	3.1	37
102	EPR on Radiation-Induced Defects in SiO2. , 2014, , 255-295.		13
103	Structural properties of core and surface of silica nanoparticles investigated by Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 810-816.	1.2	51
104	Entrapping of O₂ Molecules in Nanostructured Silica Probed by Photoluminescence. Journal of Physical Chemistry C, 2013, 117, 2616-2622.	1.5	19
105	Temperature dependence of O2 singlet photoluminescence in silica nanoparticles. Journal of Non-Crystalline Solids, 2013, 379, 220-223.	1.5	4
106	Combined High Dose and Temperature Radiation Effects on Multimode Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2013, 60, 4305-4313.	1.2	71
107	Interstitial O2 distribution in amorphous SiO2 nanoparticles determined by Raman and photoluminescence spectroscopy. Journal of Applied Physics, 2013, 114, .	1.1	25
108	Raman and IR investigation of silica nanoparticles structure. Journal of Non-Crystalline Solids, 2013, 362, 20-24.	1.5	64

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109	Dependence of O2 diffusion dynamics on pressure and temperature in silica nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	2
110	Optical and morphological properties of infrared emitting functionalized silica nanoparticles. Materials Chemistry and Physics, 2013, 142, 763-769.	2.0	6
111	Defectâ€related visible luminescence of silica nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 658-661.	0.8	11
112	Photoluminescence and diffusion properties of O₂ molecules in amorphous SiO₂ nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 654-657.	0.8	2
113	Effects of Pressure, Temperature, and Particles Size on O₂ Diffusion Dynamics in Silica Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 9456-9462.	1.5	10
114	Effects induced by UV laser radiation on the blue luminescence of silica nanoparticles. Journal of Luminescence, 2013, 138, 39-43.	1.5	13
115	Investigation on the generation process of HO2 radicals by Î³-ray irradiation in O2-loaded fumed silica. Journal of Non-Crystalline Solids, 2013, 362, 152-155.	1.5	4
116	Properties of methyl radical trapped in amorphous SiO2 and in natural SiO2-clathrate Melanophlogite. Journal of Non-Crystalline Solids, 2013, 361, 9-12.	1.5	9
117	Coupled theoretical and experimental studies for the radiation hardening of silica-based optical fibers. , 2013, , .		1
118	Structure of Amorphous SiO₂ Nanoparticles Probed through the Eâ€²_{Î³} Centers. Journal of Physical Chemistry C, 2012, 116, 144-149.	1.5	22
119	O2 Diffusion in Amorphous SiO2 Nanoparticles Probed by Outgassing. Journal of Physical Chemistry C, 2012, 116, 11351-11356.	1.5	12
120	Plasma Functionalization of Multiwalled Carbon Nanotubes and Their Use in the Preparation of Nylon 6â€Based Nanohybrids. Plasma Processes and Polymers, 2012, 9, 503-512.	1.6	54
121	Influence of Drawing Conditions on the Properties and Radiation Sensitivities of Pure-Silica-Core Optical Fibers. Journal of Lightwave Technology, 2012, 30, 1726-1732.	2.7	46
122	Near-Infrared Emission of O₂ Embedded in Amorphous SiO₂ Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 12831-12835.	1.5	18
123	Evolution of Photo-induced defects in Ge-doped fiber/preform: influence of the drawing. Optics Express, 2011, 19, 11680.	1.7	42
124	X-ray irradiation effects on a multistep Ge-doped silica fiber produced using different drawing conditions. Journal of Non-Crystalline Solids, 2011, 357, 1966-1970.	1.5	21
125	Influence of Ge doping level on the EPR signal of Ge(1), Ge(2) and E'Ge defects in Ge-doped silica. Journal of Non-Crystalline Solids, 2011, 357, 1900-1903.	1.5	22
126	Structural and luminescence properties of amorphous SiO2 nanoparticles. Journal of Non-Crystalline Solids, 2011, 357, 1941-1944.	1.5	25

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127	Effects of thermal treatments in controlled atmosphere on the Ce oxidation state in Ceâ€“Ti-Eu doped SiO2 solâ€“gel glasses. Journal of Sol-Gel Science and Technology, 2011, 58, 56-61.	1.1	3
128	Dependence of the emission properties of the germanium lone pair center on Ge doping of silica. Journal of Physics Condensed Matter, 2011, 23, 015903.	0.7	13
129	â€˜School adopts an experimentâ€™: the photoluminescence in extra-virgin olive oil and in tonic water. Physics Education, 2011, 46, 599-603.	0.3	4
130	Structural properties of the range-II- and range-III order in amorphous-SiO2 probed by electron paramagnetic resonance and Raman spectroscopy. European Physical Journal B, 2010, 76, 197-201.	0.6	7
131	Irradiation induced germanium lone pair centers in Ge-doped solâ€“gel SiO2: Luminescence lifetime and temperature dependence. Journal of Luminescence, 2010, 130, 1866-1871.	1.5	2
132	Wide range excitation of visible luminescence in nanosilica. Solid State Communications, 2010, 150, 2278-2280.	0.9	16
133	The role of impurities in the irradiation induced densification of amorphous SiO2. Journal of Physics Condensed Matter, 2010, 22, 255403.	0.7	7
134	Formation of optically active oxygen deficient centers in Ge-doped SiO2 by Î³- and Î²-ray irradiation. Journal of Non-Crystalline Solids, 2010, 356, 275-280.	1.5	16
135	Thermally Induced Structural Modification of Silica Nanoparticles Investigated by Raman and Infrared Absorption Spectroscopies. Journal of Physical Chemistry C, 2010, 114, 13991-13997.	1.5	33
136	Atomic force microscopy and Raman investigation on the sintering process of amorphous SiO2 nanoparticles. Journal of Applied Physics, 2010, 108, 074314.	1.1	24
137	Refractive index change dependence on Ge(1) defects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math>-irradiated Ge-doped silica. Physical Review B, 2009, 80,	1.1	27
138	Role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:mtext>O</mml:mte the thermal annealing of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mtext>E</mml:mtext><mml:mi>Î³</mml:mi><mml:mo>â€²</mml:mo></mml:msub in amorphous silicon dioxide. Physical Review B, 2009, 79, .	1.1	10
139	Comparison of γ and β-ray irradiation effects in sol-gel Ge-doped SiO<inf>2</inf>. , 2009, , .		0
140	Room Temperature Instability of Eâ€²Î³ Centers Induced by Î³ Irradiation in Amorphous SiO2. Journal of Physical Chemistry A, 2009, 113, 1026-1032.	1.1	10
141	Structural modifications induced by electron irradiation in SiO ₂ glass: Local densification measurements. Europhysics Letters, 2009, 87, 26007.	0.7	11
142	Polyamorphic transformation induced by electron irradiation ina-SiO2glass. Physical Review B, 2009, 80, .	1.1	27
143	Effects of high pressure thermal treatments in oxygen and helium atmospheres on amorphous silicon dioxide and its radiation hardness. Journal of Non-Crystalline Solids, 2009, 355, 1046-1049.	1.5	10
144	Concentration growth and thermal stability of Î³-ray induced germanium lone pair center in Ge-doped solâ€“gel a-SiO2. Journal of Non-Crystalline Solids, 2009, 355, 1050-1053.	1.5	5

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145	Variability of the Siâ€“Oâ€“Si angle in amorphous-SiO2 probed by electron paramagnetic resonance and Raman spectroscopy. Journal of Non-Crystalline Solids, 2009, 355, 1092-1094.	1.5	19
146	In situ observation of Î²-ray induced UV optical absorption in a-SiO2: Radiation darkening and room temperature recovery. Journal of Non-Crystalline Solids, 2009, 355, 1042-1045.	1.5	3
147	S29i attribution of the 1.3 mT hyperfine structure of the Eâ€²Î³ centers in amorphous SiO2. Journal of Applied Physics, 2009, 105, 093514.	1.1	5
148	Geâ€doping dependence of gammaâ€ray induced germanium lone pair centers in Geâ€doped silica. Physica Status Solidi (B): Basic Research, 2008, 245, 2128-2131.	0.7	3
149	Effect of oxygen deficiency on the radiation sensitivity of sol-gel Ge-doped amorphous SiO2. European Physical Journal B, 2008, 61, 25-31.	0.6	20
150	Optical absorption and electron paramagnetic resonance of theEÎ±â€²center in amorphous silicon dioxide. Physical Review B, 2008, 77, .	1.1	12
151	Optical absorption band at5.8eVassociated with theEÎ³â€²centers in amorphous silicon dioxide: Optical absorption and EPR measurements. Physical Review B, 2008, 77, .	1.1	17
152	Twofold co-ordinated Ge defects induced by gamma-ray irradiation in Ge-doped SiO_2. Optics Express, 2008, 16, 4895.	1.7	17
153	Comparison Between Point Defect Generation by $gamma$-rays in Bulk and Fibre Samples of High Purity Amorphous ${hbox {SiO}}_{2}$. IEEE Transactions on Nuclear Science, 2008, 55, 2121-2125.	1.2	4
154	Annealing of radiation induced oxygen deficient point defects in amorphous silicon dioxide: evidence for a distribution of the reaction activation energies. Journal of Physics Condensed Matter, 2008, 20, 385215.	0.7	7
155	Intrinsic generation of OH groups in dry silicon dioxide upon thermal treatments. Applied Physics Letters, 2008, 93, 151906.	1.5	12
156	‹title›Study of color centers in optical fibers to be used for ITER plasma diagnostics‹/title›. , 2007, , .		1
157	Electron paramagnetic resonance investigation on the hyperfine structure of the center in amorphous silicon dioxide. Journal of Non-Crystalline Solids, 2007, 353, 518-521.	1.5	3
158	centers induced by Î³ irradiation in solâ€“gel synthesized oxygen deficient amorphous silicon dioxide. Journal of Non-Crystalline Solids, 2007, 353, 573-576.	1.5	10
159	Generation of oxygen deficient point defects in silica by Î³ and Î² irradiation. Journal of Non-Crystalline Solids, 2007, 353, 581-585.	1.5	15
160	Optical properties of Ge-oxygen deficient centers embedded in silica films. Journal of Non-Crystalline Solids, 2007, 353, 670-673.	1.5	3
161	Experimental evidence of centers generation from oxygen vacancies in a-SiO2. Journal of Non-Crystalline Solids, 2007, 353, 577-580.	1.5	15
162	Comparison between point defect generation by Î³-rays in bulk and fibre samples of high purity amorphous SiO‹sub›2‹/sub›. , 2007, , .		0

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163	Evaluation of the UV Optical Transmission Degradation of Gamma-ray Irradiated Optical Fibers. , 2007, , .		1
164	Electron paramagnetic resonance line shape investigation of the29Si hyperfine doublet of the Eâ€²Î³ center in a-SiO2. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1301-1304.	0.8	4
165	Structural inhomogeneity of Ge-doped amorphous SiO2 probed by photoluminescence lifetime measurements under synchrotron radiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 934-937.	0.8	2
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