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	Overview of radiation induced point defects in silica-based optical fibers. Reviews in Physics, 2019, 4, 100032.	4.4	208
2	Luminescence mechanisms of defective ZnO nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 16237-16244.	1.3	89
3	Ambipolar MoS₂ Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 23164-23174.	4.0	81
4	Instantaneous diffusion effect on spin-echo decay: Experimental investigation by spectral selective excitation. Physical Review B, 2001, 64, .	1.1	76
5	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
6	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
7	Raman and IR investigation of silica nanoparticles structure. Journal of Non-Crystalline Solids, 2013, 362, 20-24.	1.5	64
8	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
9	Raman spectroscopy study of Î²-irradiated silica glass. Journal of Non-Crystalline Solids, 2003, 325, 22-28.	1.5	60
10	Visible-ultraviolet vibronic emission of silica nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 22028-22034.	1.3	60
11	Synthesis and self-assembly of a PEGylated-graphene aerogel. Composites Science and Technology, 2016, 128, 193-200.	3.8	59
12	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
13	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
14	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
15	Fluorescent nitrogen-rich carbon nanodots with an unexpected Î²-C₃N₄nanocrystalline structure. Journal of Materials Chemistry C, 2016, 4, 2598-2605.	2.7	53
16	Structural properties of core and surface of silica nanoparticles investigated by Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 810-816.	1.2	51
17	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
18	Conformational disorder in vitreous systems probed by photoluminescence activity inSiO2. Physical Review B, 1999, 60, 11475-11481.	1.1	47

#	Article	IF	Citations
19	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
20	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
21	Structural relaxation ofEÎ³â€²centers in amorphous silica. Physical Review B, 2002, 66, .	1.1	43
22	Evolution of Photo-induced defects in Ge-doped fiber/preform: influence of the drawing. Optics Express, 2011, 19, 11680.	1.7	42
23	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
24	Characteristics of industrially manufactured amorphous hydrogenated carbon (a-C:H) depositions on high-density polyethylene. Carbon, 2016, 96, 661-671.	5.4	41
25	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. Journal of Alloys and Compounds, 2016, 664, 428-438.	2.8	39
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	Luminescent silicon nanocrystals produced by near-infrared nanosecond pulsed laser ablation in water. Applied Surface Science, 2014, 302, 62-65.	3.1	37
28	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
29	Delocalized Nature of theEÎ´â€²Center in Amorphous Silicon Dioxide. Physical Review Letters, 2005, 94, 125501.	2.9	35
30	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
31	Structural and CO₂ Capture Properties of Ethylenediamine-Modified HKUST-1 Metalâ€“Organic Framework. Crystal Growth and Design, 2020, 20, 5455-5465.	1.4	35
32	Î³-ray-induced bleaching in silica: Conversion from optical to paramagnetic defects. Physical Review B, 2000, 61, 1946-1951.	1.1	33
33	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
34	Inkjet printing Ag nanoparticles for SERS hot spots. Analytical Methods, 2018, 10, 3215-3223.	1.3	33
35	Characterization ofEâ€²Î´and triplet point defects in oxygen-deficient amorphous silicon dioxide. Physical Review B, 2006, 73, .	1.1	32
36	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. Journal of Alloys and Compounds, 2017, 695, 2054-2064.	2.8	32

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37	Si29Hyperfine Structure of theEâ€²Î±Center in Amorphous Silicon Dioxide. Physical Review Letters, 2006, 97, 135502.	2.9	31
38	Thermal stability of gamma-irradiation-induced oxygen-deficient centers in silica. Physical Review B, 2006, 73, .	1.1	31
39	Sol-Gel GeO2-Doped SiO2 Glasses for Optical Applications. Journal of Sol-Gel Science and Technology, 2003, 26, 915-918.	1.1	30
40	Competitive relaxation processes of oxygen deficient centers in silica. Physical Review B, 2003, 67, .	1.1	30
41	Monolayer graphene doping and strain dynamics induced by thermal treatments in controlled atmosphere. Carbon, 2018, 127, 270-279.	5.4	29
42	X-ray irradiation effects on fluorine-doped germanosilicate optical fibers. Optical Materials Express, 2014, 4, 1683.	1.6	28
43	Temperature and excitation energy dependence of decay processes of luminescence in Ge-doped silica. Physical Review B, 2003, 68, .	1.1	27
44	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
45	Polyamorphic transformation induced by electron irradiation ina-SiO2glass. Physical Review B, 2009, 80, .	1.1	27
46	Radiation Response of Ce-Codoped Germanosilicate and Phosphosilicate Optical Fibers. IEEE Transactions on Nuclear Science, 2016, 63, 2058-2064.	1.2	27
47	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
48	Structural and luminescence properties of amorphous SiO2 nanoparticles. Journal of Non-Crystalline Solids, 2011, 357, 1941-1944.	1.5	25
49	Interstitial O2 distribution in amorphous SiO2 nanoparticles determined by Raman and photoluminescence spectroscopy. Journal of Applied Physics, 2013, 114, .	1.1	25
50	A Comparative Study of Top-Down and Bottom-Up Carbon Nanodots and Their Interaction with Mercury Ions. Nanomaterials, 2021, 11, 1265.	1.9	25
51	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
52	Atomic force microscopy and Raman investigation on the sintering process of amorphous SiO2 nanoparticles. Journal of Applied Physics, 2010, 108, 074314.	1.1	24
53	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
54	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

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55	Luminescence of Î³-radiation-induced defects in Î±-quartz. Journal of Physics Condensed Matter, 2004, 16, 7931-7939.	0.7	23
56	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
57	Transient nutations decay: The effect of field-modified dipolar interaction. Physical Review A, 1999, 59, 4087-4090.	1.0	22
58	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
59	Structure of Amorphous SiO₂ Nanoparticles Probed through the Eâ€²_{Î³} Centers. Journal of Physical Chemistry C, 2012, 116, 144-149.	1.5	22
60	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
61	Aluminum oxide nucleation in the early stages of atomic layer deposition on epitaxial graphene. Carbon, 2020, 169, 172-181.	5.4	22
62	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
63	Synthesis of multi-color luminescent ZnO nanoparticles by ultra-short pulsed laser ablation. Applied Surface Science, 2020, 506, 144954.	3.1	21
64	Weak hyperfine interaction of Eâ€² centers in gamma and beta irradiated silica. Journal of Applied Physics, 2001, 89, 6002-6006.	1.1	20
65	Role of vitreous matrix on the optical activity of Ge-doped silica. Journal of Physics and Chemistry of Solids, 2003, 64, 2437-2443.	1.9	20
66	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
67	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
68	Entrapping of O₂ Molecules in Nanostructured Silica Probed by Photoluminescence. Journal of Physical Chemistry C, 2013, 117, 2616-2622.	1.5	19
69	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
70	Near-Infrared Emission of O₂ Embedded in Amorphous SiO₂ Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 12831-12835.	1.5	18
71	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
72	Twofold co-ordinated Ge defects induced by gamma-ray irradiation in Ge-doped SiO_2. Optics Express, 2008, 16, 4895.	1.7	17

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73	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
74	Gamma and x-ray irradiation effects on different Ge and Ge/F doped optical fibers. Journal of Applied Physics, 2015, 118, .	1.1	17
75	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
76	Optical absorption, luminescence, and ESR spectral properties of point defects in silica. , 2001, , 1-50.		16
77	Wide range excitation of visible luminescence in nanosilica. Solid State Communications, 2010, 150, 2278-2280.	0.9	16
78	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
79	O₂-Loading Treatment of Ge-Doped Silica Fibers: A Radiation Hardening Process. Journal of Lightwave Technology, 2016, 34, 2311-2316.	2.7	16
80	Highly Efficient Electron Transfer in a Carbon Dotâ€“Polyoxometalate Nanohybrid. Journal of Physical Chemistry Letters, 2020, 11, 4379-4384.	2.1	16
81	Luminescence activity of surface and interior Geâ€“oxygen deficient centers in silica. Journal of Non-Crystalline Solids, 2005, 351, 1805-1809.	1.5	15
82	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
83	Experimental evidence of centers generation from oxygen vacancies in a-SiO2. Journal of Non-Crystalline Solids, 2007, 353, 577-580.	1.5	15
84	Substrate and atmosphere influence on oxygen p-doped graphene. Carbon, 2016, 107, 696-704.	5.4	15
85	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
86	Multiscale Investigation of the Structural, Electrical and Photoluminescence Properties of MoS2 Obtained by MoO3 Sulfurization. Nanomaterials, 2022, 12, 182.	1.9	15
87	Intrinsic defects induced by Î²-irradiation in silica. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 387-391.	0.6	13
88	Transient visible-UV absorption in beta irradiated silica. Journal of Non-Crystalline Solids, 2003, 322, 84-89.	1.5	13
89	Ultraviolet emission lifetime in Si and Ge oxygen deficient centers in silica. Journal of Non-Crystalline Solids, 2003, 322, 129-133.	1.5	13
90	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

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91	Effects induced by UV laser radiation on the blue luminescence of silica nanoparticles. Journal of Luminescence, 2013, 138, 39-43.	1.5	13
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	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
94	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
95	EPR on Radiation-Induced Defects in SiO2. , 2014, , 255-295.		13
96	Gamma ray induced 11.8 mT ESR doublet in natural silica. Journal of Non-Crystalline Solids, 1998, 232-234, 323-328.	1.5	12
97	Optical absorption and electron paramagnetic resonance of theEÎ±â€²center in amorphous silicon dioxide. Physical Review B, 2008, 77, .	1.1	12
98	Intrinsic generation of OH groups in dry silicon dioxide upon thermal treatments. Applied Physics Letters, 2008, 93, 151906.	1.5	12
99	O2 Diffusion in Amorphous SiO2 Nanoparticles Probed by Outgassing. Journal of Physical Chemistry C, 2012, 116, 11351-11356.	1.5	12
100	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
101	Photoluminescence of Carbon Dots Embedded in a SiO2 Matrix. Materials Today: Proceedings, 2016, 3, S258-S265.	0.9	12
102	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
103	Influence of oxide substrates on monolayer graphene doping process by thermal treatments in oxygen. Carbon, 2019, 149, 546-555.	5.4	12
104	Ge related centers induced by gamma irradiation in solâ€“gel Ge-doped silica. Journal of Non-Crystalline Solids, 2003, 322, 134-138.	1.5	11
105	Experimental evidence of two different precursors of <mml:math altimg="si3.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="ht. Journal of Non-Crystall	1.5	11
106	Structural modifications induced by electron irradiation in SiO ₂ glass: Local densification measurements. Europhysics Letters, 2009, 87, 26007.	0.7	11
107	Defectâ€related visible luminescence of silica nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 658-661.	0.8	11
108	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

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109	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
110	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
111	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
112	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
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	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
115	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
116	Growth of H(II) centers in natural silica after UV laser exposure. Journal of Non-Crystalline Solids, 2003, 322, 90-94.	1.5	9
117	Photoluminescence in Î³-irradiated Î±-quartz investigated by synchrotron radiation. Radiation Measurements, 2004, 38, 507-510.	0.7	9
118	Modifications of optical absorption band of center in silica. Journal of Non-Crystalline Solids, 2005, 351, 1801-1804.	1.5	9
119	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
120	Dynamic Modification of Fermi Energy in Single-Layer Graphene by Photoinduced Electron Transfer from Carbon Dots. Nanomaterials, 2020, 10, 528.	1.9	9
121	Intrinsic Point Defects in Silica for Fiber Optics Applications. Materials, 2021, 14, 7682.	1.3	9
122	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
123	Ag nanoparticles agargel nanocomposites for SERS detection of cultural heritage interest pigments. European Physical Journal Plus, 2018, 133, 1.	1.2	8
124	INVESTIGATION ON THE MICROSCOPIC STRUCTURE OF Eâ€²Î´ CENTER IN AMORPHOUS SILICON DIOXIDE BY ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY. Modern Physics Letters B, 2006, 20, 451-474.	1.0	7
125	Excitation processes of the blue luminescence in crystalline SiO2 probed by synchrotron radiation measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 968-971.	0.8	7
126	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

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127	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
128	The role of impurities in the irradiation induced densification of amorphous SiO2. Journal of Physics Condensed Matter, 2010, 22, 255403.	0.7	7
129	Electrical-optical characterization of multijunction solar cells under 2000X concentration. AIP Conference Proceedings, 2014, , .	0.3	7
130	Controlling the oxidation processes of Zn nanoparticles produced by pulsed laser ablation in aqueous solution. Journal of Applied Physics, 2016, 120, .	1.1	7
131	Resonance Raman of oxygen dangling bonds in amorphous silicon dioxide. Journal of Raman Spectroscopy, 2017, 48, 230-234.	1.2	7
132	Generation of a 7.4 mT ESR doublet induced by Î³ rays in amorphous-SiO2. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 465-469.	0.6	6
133	Creation of paramagnetic defects by gamma irradiation in amorphous silica. Applied Magnetic Resonance, 2000, 19, 579-585.	0.6	6
134	UV and vacuum-UV properties of ge related centers in gamma irradiated silica. Radiation Effects and Defects in Solids, 2002, 157, 615-619.	0.4	6
135	Post-irradiation kinetics of UV laser induced defects in silica. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 401-405.	0.6	6
136	Spectral heterogeneity of oxygen-deficient centers in Ge-doped silica. Radiation Measurements, 2004, 38, 645-648.	0.7	6
137	Optical and morphological properties of infrared emitting functionalized silica nanoparticles. Materials Chemistry and Physics, 2013, 142, 763-769.	2.0	6
138	Direct sunlight facility for testing and research in HCPV. , 2014, , .		6
139	Combined heat and power generation with a HCPV system at 2000 suns. AIP Conference Proceedings, 2015, , .	0.3	6
140	Insight into the defectâ€“molecule interaction through the molecular-like photoluminescence of SiO2 nanoparticles. RSC Advances, 2016, 6, 93010-93015.	1.7	6
141	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
142	Photoinduced charge transfer from Carbon Dots to Graphene in solid composite. Thin Solid Films, 2019, 669, 620-624.	0.8	6
143	Temperature dependence of luminescence decay in Sn-doped silica. Journal of Non-Crystalline Solids, 2005, 351, 1937-1940.	1.5	5
144	Hydrogen-Related Paramagnetic Centers in Ge-Doped Sol-Gel Silica Induced by Î³-Ray Irradiation. Journal of Sol-Gel Science and Technology, 2006, 37, 63-68.	1.1	5

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145	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
146	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
147	CHP efficiency of a 2000 Ã— CPV system with reflective optics. AIP Conference Proceedings, 2015, , .	0.3	5
148	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
149	Evidence of different red emissions in irradiated germanosilicate materials. Journal of Luminescence, 2016, 177, 127-132.	1.5	5
150	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
151	Environment assisted photoconversion of luminescent surface defects in SiO 2 nanoparticles. Applied Surface Science, 2017, 420, 94-99.	3.1	5
152	Grapheneâ€“SiO 2 Interaction from Composites to Doping. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800540.	0.8	5
153	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
154	Controlled solution-based fabrication of perovskite thin films directly on conductive substrate. Thin Solid Films, 2021, 733, 138806.	0.8	5
155	Ultrafast Interface Charge Separation in Carbon Nanodotâ€“Nanotube Hybrids. ACS Applied Materials & Interfaces, 2021, 13, 49232-49241.	4.0	5
156	Photoluminescent and paramagnetic centers in gamma irradiated porous silica. Journal of Non-Crystalline Solids, 2005, 351, 1784-1786.	1.5	4
157	Growth of paramagnetic defects by gamma rays irradiation in oxygen-deficient silica. Journal of Non-Crystalline Solids, 2005, 351, 1787-1790.	1.5	4
158	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
159	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
160	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
161	Temperature dependence of O2 singlet photoluminescence in silica nanoparticles. Journal of Non-Crystalline Solids, 2013, 379, 220-223.	1.5	4
162	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

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163	Alpha and deuteron irradiation effects on silica nanoparticles. Journal of Materials Science, 2014, 49, 6475-6484.	1.7	4
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