

# Marco Marinelli

## List of Publications by Year in descending order

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267  
papers

5,432  
citations

101384

36  
h-index

155451

55  
g-index

267  
all docs

267  
docs citations

267  
times ranked

3709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	1.6	150
2	High-resolution simultaneous photothermal measurements of thermal parameters at a phase transition with the photopyroelectric technique. Journal of Applied Physics, 1992, 72, 1096-1100.	1.1	136
3	Extreme ultraviolet single-crystal diamond detectors by chemical vapor deposition. Applied Physics Letters, 2005, 86, 193509.	1.5	127
4	Photopyroelectric study of specific heat, thermal conductivity, and thermal diffusivity of Cr <sub>2</sub> O <sub>3</sub> at the Néel transition. Physical Review B, 1994, 49, 9523-9532.	1.1	94
5	Simultaneous determination of specific heat, thermal conductivity and thermal diffusivity at low temperature via the photopyroelectric technique. Applied Physics A: Solids and Surfaces, 1990, 51, 387-393.	1.4	91
6	Dosimetric characterization of a synthetic single crystal diamond detector in clinical radiation therapy small photon beams. Medical Physics, 2012, 39, 4493-4501.	1.6	91
7	Thermodynamic fluctuations in the 110-K Bi-Sr-Ca-Cu-O superconductor: Evidence for two-dimensional behavior. Physical Review B, 1989, 39, 12264-12266.	1.1	89
8	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	1.6	87
9	Searches of fractionally charged particles in matter with the magnetic levitation technique. Physics Reports, 1982, 85, 161-258.	10.3	78
10	Chemical vapor deposition diamond based multilayered radiation detector: Physical analysis of detection properties. Journal of Applied Physics, 2010, 107, .	1.1	76
11	Thermal conductivity and thermal diffusivity of the cyanobiphenyl(nCB) homologous series. Physical Review E, 1998, 58, 5860-5866.	0.8	75
12	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	6.5	73
13	High-quality diamond grown by chemical-vapor deposition: Improved collection efficiency in $\alpha$ -particle detection. Applied Physics Letters, 1999, 75, 3216-3218.	1.5	68
14	Growth of diamond films: General correlation between film morphology and plasma emission spectra. Applied Physics Letters, 1993, 62, 879-881.	1.5	65
15	Thermal and fast neutron detection in chemical vapor deposition single-crystal diamond detectors. Journal of Applied Physics, 2008, 103, 054501.	1.1	63
16	Active infrared thermography applied to the investigation of art and historic artefacts. Journal of Thermal Analysis and Calorimetry, 2011, 104, 475-485.	2.0	63
17	Comparative investigation of surface transfer doping of hydrogen terminated diamond by high electron affinity insulators. Journal of Applied Physics, 2016, 120, .	1.1	62
18	High performance Li <sub>6</sub> F-diamond thermal neutron detectors. Applied Physics Letters, 2006, 89, 143509.	1.5	61

#	ARTICLE	IF	CITATIONS
19	Invited Review Article: Photopyroelectric calorimeter for the simultaneous thermal, optical, and structural characterization of samples over phase transitions. <i>Review of Scientific Instruments</i> , 2011, 82, 121101.	0.6	61
20	Development of single crystal diamond neutron detectors and test at JET tokamak. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 595, 616-622.	0.7	58
21	Anisotropic heat transport in the octylcyanobiphenyl (8CB) liquid crystal. <i>Physical Review E</i> , 1996, 54, 1604-1609.	0.8	54
22	Infrared Thermography Applied to the Study of Cultural Heritage. <i>International Journal of Thermophysics</i> , 2015, 36, 1189-1194.	1.0	53
23	Characterization of a synthetic single crystal diamond Schottky diode for radiotherapy electron beam dosimetry. <i>Medical Physics</i> , 2013, 40, 021712.	1.6	50
24	Thermal conductivity, diffusivity, and heat-capacity studies at the smectic-A $\rightarrow$ nematic transition in alkylcyanobiphenyl liquid crystals. <i>Physical Review A</i> , 1990, 41, 1153-1155.	1.0	49
25	Experimental determination of the PTW 60019 microDiamond dosimeter active area and volume. <i>Medical Physics</i> , 2016, 43, 5205-5212.	1.6	49
26	Excess conductivity in 2:2:1:2-phase Bi-Sr-Ca-Cu-O epitaxial thin films. <i>Physical Review B</i> , 1992, 46, 14919-14921.	1.1	47
27	Is the PTW 60019 microDiamond a suitable candidate for small field reference dosimetry?. <i>Physics in Medicine and Biology</i> , 2017, 62, 7036-7055.	1.6	46
28	Simultaneous absolute measurements of the thermal diffusivity and the thermal effusivity in solids and liquids using photopyroelectric calorimetry. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	44
29	Experimental evidence in favor of the fluctuation origin of the transverse-resistance increase near the edge of the superconducting transition in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ . <i>Physical Review B</i> , 1993, 47, 6037-6042.	1.1	43
30	Trapping and detrapping effects in high-quality chemical-vapor-deposition diamond films: Pulse shape analysis of diamond particle detectors. <i>Physical Review B</i> , 2001, 64, .	1.1	43
31	Extreme UV photodetectors based on CVD single crystal diamond in a p-type/intrinsic/metal configuration. <i>Diamond and Related Materials</i> , 2009, 18, 101-105.	1.8	41
32	Analysis of the Order Character of the R <sub>II</sub> $\rightarrow$ R <sub>I</sub> and the R <sub>I</sub> $\rightarrow$ R <sub>V</sub> Rotator Phase Transitions in Alkanes by Photopyroelectric Calorimetry. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8134-8139.	1.2	41
33	Dynamic critical behavior of thermal parameters at the smectic-A $\rightarrow$ nematic phase transition of octyloxythiolbenzoate. <i>Physical Review E</i> , 1996, 53, 701-705.	0.8	39
34	Synthetic single crystal diamond diodes for radiotherapy dosimetry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 594, 273-277.	0.7	39
35	Single-crystal diamond detector for time-resolved measurements of a pulsed fast-neutron beam. <i>Europhysics Letters</i> , 2010, 92, 68003.	0.7	39
36	Evaluation of the dosimetric properties of a synthetic single crystal diamond detector in high energy clinical proton beams. <i>Medical Physics</i> , 2013, 40, 121702.	1.6	39

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37	Compositional and spectroscopic study of the growth of diamond films from several gaseous mixtures. <i>Journal of Applied Physics</i> , 1994, 76, 5702-5705.	1.1	35
38	Radiation tolerance of a high quality synthetic single crystal chemical vapor deposition diamond detector irradiated by 14.8 MeV neutrons. <i>Journal of Applied Physics</i> , 2008, 104, 054513.	1.1	35
39	CyberKnife beam output factor measurements: A multi-site and multi-detector study. <i>Physica Medica</i> , 2016, 32, 1637-1643.	0.4	35
40	Metastructure of illuminations by infrared thermography. <i>Journal of Cultural Heritage</i> , 2018, 31, 53-62.	1.5	35
41	Photoacoustic optical and thermal characterization of Si and GaAs ion implanted layers. <i>Applied Physics Letters</i> , 1987, 50, 830-832.	1.5	34
42	Analysis of laser-generated plasma ionizing radiation by synthetic single crystal diamond detectors. <i>Applied Surface Science</i> , 2013, 272, 104-108.	3.1	34
43	Latent heat investigation by photopyroelectric calorimetry. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	33
44	Single crystal CVD diamonds as neutron detectors at JET. <i>Fusion Engineering and Design</i> , 2009, 84, 1156-1159.	1.0	33
45	Fission diamond detectors for fast-neutron ToF spectroscopy. <i>Europhysics Letters</i> , 2011, 94, 62001.	0.7	33
46	Optically induced reorientational birefringence in an artificial anisotropic Kerr medium. <i>Optics Communications</i> , 1988, 68, 231-234.	1.0	32
47	Dynamics at the Nematic-Isotropic Phase Transition in Aerosil Dispersed Liquid Crystal. <i>Physical Review Letters</i> , 2005, 94, .	2.9	32
48	Effect of Quenched Disorder on the $R_{I \rightarrow V}$ , $R_{II \rightarrow I}$ , and Liquid $\rightarrow$ Rotator Phase Transitions in Alkanes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2331-2337.	1.2	32
49	<i>&lt;sup&gt;2&lt;/sup&gt;O&lt;sub&gt;5&lt;/sub&gt;</i> MISFETs on H-Terminated Diamond. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 4647-4653.	1.6	32
50	Toward the use of single crystal diamond based detector for ion-beam therapy microdosimetry. <i>Radiation Measurements</i> , 2018, 110, 25-31.	0.7	32
51	Photoacoustics as a technique for simultaneous measurement of thermal conductivity and heat capacity. <i>Journal of Physics E: Scientific Instruments</i> , 1988, 21, 935-937.	0.7	31
52	Transport critical current density in epitaxial Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> films: Effects of the substrate twinning. <i>Applied Physics Letters</i> , 1990, 57, 2359-2361.	1.5	31
53	Ion dose effect in subgap absorption spectra of defects in ion implanted GaAs and Si. <i>Journal of Applied Physics</i> , 1991, 70, 7060-7064.	1.1	31
54	Disorder effects in low concentration dispersions of small quartz spheres in cyanobiphenyl liquid crystals. <i>Physical Review E</i> , 1999, 60, R6309-R6312.	0.8	31

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55	High quality CVD diamond: a Raman scattering and photoluminescence study. <i>European Physical Journal B</i> , 2001, 20, 133-139.	0.6	31
56	Systematic study of the normal and pumped state of high efficiency diamond particle detectors grown by chemical vapor deposition. <i>Journal of Applied Physics</i> , 2001, 89, 1430-1435.	1.1	31
57	Synthetic single crystal diamond as a fission reactor neutron flux monitor. <i>Applied Physics Letters</i> , 2007, 90, 183509.	1.5	31
58	Synthetic single crystal diamond dosimeters for Intensity Modulated Radiation Therapy applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 608, 191-194.	0.7	31
59	Specific heat, thermal diffusivity, and thermal conductivity of FeF <sub>2</sub> at the Néel temperature. <i>Physical Review B</i> , 1995, 51, 8897-8903.	1.1	30
60	Effect of the nematic range on the critical behavior and anisotropy of the heat transport parameters at the smectic-nematic phase transition. <i>Physical Review E</i> , 1998, 57, 596-602.	0.8	30
61	Dynamics of Nematic Liquid Crystal with Quenched Disorder in the Random Dilution and Random Field Regimes. <i>Physical Review Letters</i> , 2005, 95, 237801.	2.9	30
62	Effect of Confinement and Strain on the Specific Heat and Latent Heat over the Nematic-Isotropic Phase Transition of 8CB Liquid Crystal. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14315-14322.	1.2	30
63	Multicenter evaluation of a synthetic single-crystal diamond detector for CyberKnife small field size output factors. <i>Physica Medica</i> , 2016, 32, 575-581.	0.4	30
64	Time dependent 14MeV neutrons measurement using a polycrystalline chemical vapor deposited diamond detector at the JET tokamak. <i>Review of Scientific Instruments</i> , 2005, 76, 013506.	0.6	29
65	Self consistently calibrated photopyroelectric calorimeter for the high resolution simultaneous absolute measurement of the specific heat and of the thermal conductivity. <i>AIP Advances</i> , 2012, 2, .	0.6	29
66	Dosimetric characterization of a microDiamond detector in clinical scanned carbon ion beams. <i>Medical Physics</i> , 2015, 42, 2085-2093.	1.6	29
67	Design, realization, and characterization of a novel diamond detector prototype for FLASH radiotherapy dosimetry. <i>Medical Physics</i> , 2022, 49, 1902-1910.	1.6	29
68	Effects of fluctuations in the orientational order parameter in the cyanobiphenyl(nCB)homologous series. <i>Physical Review E</i> , 2000, 61, 1616-1621.	0.8	28
69	Gate-Source Distance Scaling Effects in H-Terminated Diamond MESFETs. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 1150-1156.	1.6	28
70	Characterization of a microDiamond detector in high-dose-per-pulse electron beams for intra operative radiation therapy. <i>Physica Medica</i> , 2015, 31, 897-902.	0.4	28
71	Synthesis and characterization of a single-crystal chemical-vapor-deposition diamond particle detector. <i>Applied Physics Letters</i> , 2005, 86, 213507.	1.5	27
72	Radiation hardness of a polycrystalline chemical-vapor-deposited diamond detector irradiated with 14 MeV neutrons. <i>Review of Scientific Instruments</i> , 2006, 77, 023505.	0.6	27

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73	Effect of gas composition on texture of diamond films. Applied Physics Letters, 1994, 65, 2839-2841.	1.5	26
74	Active infrared thermography applied to the study of a painting on paper representing the Chigi's family tree. Studies in Conservation, 2015, 60, 88-96.	0.6	26
75	Compositional dependence of properties of $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_3\text{Ca}_x\text{Cu}_2\text{O}_{8+z}$ films grown by liquid phase epitaxy. Journal of Applied Physics, 1991, 70, 6939-6944.	1.1	25
76	Optical-absorption studies of ion-implantation damage in Si on sapphire. Physical Review B, 1994, 49, 14322-14330.	1.1	25
77	Neutron Detectors Based Upon Artificial Single Crystal Diamond. IEEE Transactions on Nuclear Science, 2009, 56, 2275-2279.	1.2	25
78	Single crystal artificial diamond detectors for VUV and soft X-rays measurements on JET thermonuclear fusion plasma. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 726-730.	0.7	25
79	Evaluation of a synthetic single crystal diamond detector for relative dosimetry on the Leksell Gamma Knife Perfexion radiosurgery system. Medical Physics, 2015, 42, 5035-5041.	1.6	25
80	Small field output factors evaluation with a microDiamond detector over 30 Italian centers. Physica Medica, 2016, 32, 1644-1650.	0.4	25
81	Growth of epitaxial films of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ onto $\text{SrTiO}_3$ substrates from liquid KCl solution. Journal of Applied Physics, 1990, 68, 361-363.	1.1	24
82	Band structure emission in synthetic diamond films: A systematic investigation. Applied Physics Letters, 1996, 68, 1631-1633.	1.5	24
83	Trapping-detraping defects in single crystal diamond films grown by chemical vapor deposition. Applied Physics Letters, 2005, 87, 222101.	1.5	24
84	Spectroscopic properties and radiation damage investigation of a diamond based Schottky diode for ion-beam therapy microdosimetry. Journal of Applied Physics, 2015, 118, .	1.1	24
85	Effect of spin-system fluctuations on heat transport in $\text{RbMnF}_3$ close to the Néel temperature. Physical Review B, 1996, 54, 4087-4092.	1.1	23
86	Strain effects at the hexatic-smectic-A transition in the 65OBC liquid crystal. Physical Review E, 2006, 74, 041707.	0.8	23
87	Influence of surface crystal-orientation on transfer doping of $\text{V}_2\text{O}_5/\text{H}$ -terminated diamond. Applied Physics Letters, 2018, 112, 181602.	1.5	23
88	Growth of thick single crystals of the high $T_c$ superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ . Journal of Crystal Growth, 1988, 92, 674-676.	0.7	22
89	IR thermography characterization of residual stress in plastically deformed metallic components. Applied Physics A: Materials Science and Processing, 2010, 98, 461-465.	1.1	22
90	Gap-states distribution of ion-implanted Si and GaAs from subgap absorption measurements. Physical Review B, 1992, 46, 7515-7518.	1.1	21

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91	Radiological X-ray dosimetry with single crystal CVD diamond detectors. <i>Diamond and Related Materials</i> , 2006, 15, 797-801.	1.8	21
92	Influence of the metallic contact in extreme-ultraviolet and soft x-ray diamond based Schottky photodiodes. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	21
93	Site occupancy and valence state of optically active cobalt ions in yttrium iron garnet. <i>Physical Review B</i> , 1989, 39, 13442-13450.	1.1	20
94	Performance of diamond-based photoconductive devices in the UV range. <i>Diamond and Related Materials</i> , 1998, 7, 811-816.	1.8	20
95	Spectrometric Performances of Monocrystalline Artificial Diamond Detectors Operated at High Temperature. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2416-2423.	1.2	20
96	A Novel Microdosimeter Based Upon Artificial Single Crystal Diamond. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2409-2415.	1.2	20
97	A synthetic diamond diode in volumetric modulated arc therapy dosimetry. <i>Medical Physics</i> , 2013, 40, 092103.	1.6	20
98	Multi-analytical non-destructive investigation of pictorial apparatuses of "Villa della Piscina" in Rome. <i>Microchemical Journal</i> , 2020, 153, 104450.	2.3	20
99	Development and high temperature testing by 14 MeV neutron irradiation of single crystal diamond detectors. <i>Journal of Instrumentation</i> , 2016, 11, C06008-C06008.	0.5	19
100	Analytical chemistry approach in cultural heritage: the case of Vincenzo Pasqualoni's wall paintings in S. Nicola in Carcere (Rome). <i>Microchemical Journal</i> , 2020, 156, 104920.	2.3	19
101	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. <i>Journal of Instrumentation</i> , 2020, 15, P02024-P02024.	0.5	19
102	Photoacoustic analysis of liquid crystals' thermal parameters. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1987, 9, 557-568.	0.4	18
103	Systematic investigation of plasma emission spectra during microwave diamond deposition from CH <sub>4</sub> -CO <sub>2</sub> and C <sub>2</sub> H <sub>2</sub> -CO <sub>2</sub> gas mixtures. <i>Diamond and Related Materials</i> , 1993, 2, 389-392.	1.8	18
104	Raman and photoluminescence analysis of CVD diamond films: influence of Si-related luminescence centre on the film detection properties. <i>Diamond and Related Materials</i> , 2004, 13, 923-928.	1.8	18
105	High performance CVD-diamond-based thermocouple for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 102-105.	4.0	18
106	Extreme UV single crystal diamond Schottky photodiode in planar and transverse configuration. <i>Diamond and Related Materials</i> , 2010, 19, 78-82.	1.8	18
107	The role of a microDiamond detector in the dosimetry of proton pencil beams. <i>Zeitschrift Fur Medizinische Physik</i> , 2016, 26, 88-94.	0.6	18
108	Post-Processing of VIS, NIR, and SWIR Multispectral Images of Paintings. <i>New Discovery on the The Drunkenness of Noah, Painted by Andrea Sacchi, Stored at Palazzo Chigi (Ariccia, Rome)</i> . <i>Heritage</i> , 2019, 2, 2275-2286.	0.9	18



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109	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. <i>Journal of Nuclear Materials</i> , 2019, 516, 202-213.	1.3	18
110	High quality CVD diamond for detection applications: structural characterization. <i>Diamond and Related Materials</i> , 2001, 10, 1788-1793.	1.8	17
111	Diamond detectors for characterization of laser-generated plasma. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 463-470.	0.4	17
112	Raman scattering in boron-doped single-crystal diamond used to fabricate Schottky diode detectors. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2476-2481.	1.1	17
113	A 3-dimensional interdigitated electrode geometry for the enhancement of charge collection efficiency in diamond detectors. <i>Europhysics Letters</i> , 2014, 108, 18001.	0.7	17
114	High-temperature long-lasting stability assessment of a single-crystal diamond detector under high-flux neutron irradiation. <i>Europhysics Letters</i> , 2016, 116, 42001.	0.7	17
115	Surface states and buried interface states studies in semiconductors by photothermal deflection spectroscopy. <i>Journal of Applied Physics</i> , 1991, 69, 3286-3290.	1.1	16
116	Effects of reducing and oxidizing thermal treatments on epitaxial $\text{Bi}_{2.1-x}\text{Pb}_x\text{Sr}_{2.9-y}\text{Ca}_y\text{Cu}_2\text{O}_{8+z}$ films. <i>Journal of Applied Physics</i> , 1992, 72, 191-195.	1.1	16
117	Performances of homoepitaxial single crystal diamond in diagnostic x-ray dosimetry. <i>Applied Physics Letters</i> , 2006, 88, 151901.	1.5	16
118	Characterization of damage induced by heavy neutron irradiation on multilayered $\text{L}_6\text{IF}$ -single crystal chemical vapor deposition diamond detectors. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	16
119	Improved performance in synthetic diamond neutron detectors: Application to boron neutron capture therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 612, 580-582.	0.7	16
120	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	0.5	16
121	Electro-optical properties of diamond thin films as UV photodetectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 387, 255-258.	0.7	15
122	Structural characterisation of ionising-radiation detectors based on CVD diamond films. <i>Microsystem Technologies</i> , 1999, 6, 23-29.	1.2	15
123	Influence of metal-diamond interfaces on the response of UV photoconductors. <i>Diamond and Related Materials</i> , 2001, 10, 698-705.	1.8	15
124	Thermal and optical study of the kinetics of the nematic-isotropic transition in octylcyanobiphenyl. <i>Physical Review E</i> , 2003, 68, 041708.	0.8	15
125	Application of a novel diamond detector for commissioning of FLASH radiotherapy electron beams. <i>Medical Physics</i> , 2022, 49, 5513-5522.	1.6	15
126	Subgap absorption spectra of ion-implanted Si and GaAs layers. <i>Applied Physics Letters</i> , 1989, 55, 2745-2747.	1.5	14



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127	Magnetic-field-induced microwave losses in epitaxial Bi-Sr-Ca-Cu-O films. <i>Physical Review B</i> , 1992, 45, 12566-12572.	1.1	14
128	Growth and characterization of single crystal CVD diamond film based nuclear detectors. <i>Diamond and Related Materials</i> , 2006, 15, 292-295.	1.8	14
129	Neutron detection at jet using artificial diamond detectors. <i>Fusion Engineering and Design</i> , 2007, 82, 1174-1178.	1.0	14
130	Radiotherapy electron beams collimated by small tubular applicators: characterization by silicon and diamond diodes. <i>Physics in Medicine and Biology</i> , 2013, 58, 8121-8133.	1.6	14
131	Dosimetric characterization of a synthetic single crystal diamond detector in a clinical 62 MeV ocular therapy proton beam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 767, 310-317.	0.7	14
132	High performance diagnostics for Time-Of-Flight and X ray measurements in laser produced plasmas, based on fast diamond detectors. <i>Journal of Instrumentation</i> , 2016, 11, C12048-C12048.	0.5	14
133	Transient lateral photovoltaic effect in synthetic single crystal diamond. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	14
134	Structural and electrical properties of epitaxial films of Bi Sr Ca Cu O grown by liquid phase epitaxy. <i>Solid State Communications</i> , 1990, 76, 503-506.	0.9	13
135	A joint macro-/micro- Raman investigation of the diamond lineshape in CVD films: the influence of texturing and stress. <i>Diamond and Related Materials</i> , 2001, 10, 1535-1543.	1.8	13
136	Photopyroelectric structural and thermal characterization of first-order phase transition in liquid crystals. <i>Applied Physics Letters</i> , 2002, 81, 4148-4150.	1.5	13
137	X-Ray Detection by Using CVD Single Crystal Diamond Detector. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 849-852.	1.2	13
138	Synthetic single crystal diamond dosimeters for conformal radiation therapy application. <i>Diamond and Related Materials</i> , 2010, 19, 217-220.	1.8	13
139	14.8-MeV Neutron Irradiation on H-Terminated Diamond-Based MESFETs. <i>IEEE Electron Device Letters</i> , 2016, 37, 1597-1600.	2.2	13
140	Photo-physical properties of He-related color centers in diamond. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	13
141	Time resolved laser induced fluorescence for characterization of binders in contemporary artworks. <i>Journal of Cultural Heritage</i> , 2017, 23, 98-105.	1.5	13
142	Microdosimetric measurements of a monoenergetic and modulated Bragg Peaks of 62ÂMeV therapeutic proton beam with a synthetic single crystal diamond microdosimeter. <i>Medical Physics</i> , 2020, 47, 5791-5801.	1.6	13
143	Photo-acoustic analysis of first- and higher-order phase transitions in 8CB liquid crystal. <i>Journal Physics D: Applied Physics</i> , 1987, 20, 1045-1048.	1.3	12
144	Optical phase conjugation through translational and rotational diffusive rearrangements of liquid-dispersed microparticles. <i>Physical Review A</i> , 1990, 41, 2882-2885.	1.0	12

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145	Diamond-based photoconductors for deep UV detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 188-191.	0.7	12
146	Single crystal diamond detectors grown by chemical vapor deposition. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 299-302.	0.7	12
147	Thermal and fast neutron dosimetry using artificial single crystal diamond detectors. Radiation Measurements, 2011, 46, 1686-1689.	0.7	12
148	Response of synthetic diamond detectors in proton, carbon, and oxygen ion beams. Medical Physics, 2017, 44, 5445-5449.	1.6	12
149	Stability of H-Terminated Diamond MOSFETs With $V_{O_2}/Al_{O_3}$ as Gate Insulator. IEEE Electron Device Letters, 2019, 40, 765-768.	2.2	12
150	Third-order nonlinearity enhancement in an artificial Kerr medium through bulk intrinsic birefringence. Optics Letters, 1989, 14, 239.	1.7	11
151	Surface states studies in semiconductors by photothermal deflection spectroscopy. Journal of Applied Physics, 1991, 69, 2577-2580.	1.1	11
152	Photopyroelectric study of nonlinear heat transport phenomena at a liquid crystal phase transition. Applied Physics Letters, 1994, 65, 2663-2665.	1.5	11
153	Systematic study of pre-irradiation effects in high efficiency CVD diamond nuclear particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 476, 701-705.	0.7	11
154	Development and application of CVD diamond detectors to 14 MeV neutron flux monitoring. Radiation Protection Dosimetry, 2004, 110, 233-236.	0.4	11
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