

Maurizio Angelone

List of Publications by Year in descending order

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papers

1,014
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430874

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71
all docs

71
docs citations

71
times ranked

990
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme ultraviolet single-crystal diamond detectors by chemical vapor deposition. Applied Physics Letters, 2005, 86, 193509.	3.3	127
2	High performance Li6F-diamond thermal neutron detectors. Applied Physics Letters, 2006, 89, 143509.	3.3	61
3	Extreme UV photodetectors based on CVD single crystal diamond in a p-type/intrinsic/metal configuration. Diamond and Related Materials, 2009, 18, 101-105.	3.9	41
4	Properties of para-Terphenyl as a Detector for α and β Notation α and β and γ Radiation. IEEE Transactions on Nuclear Science, 2014, 61, 1483-1487.	2.0	35
5	Single crystal CVD diamonds as neutron detectors at JET. Fusion Engineering and Design, 2009, 84, 1156-1159.	1.9	33
6	Neutronics experiment on a helium cooled pebble bed (HCPB) breeder blanket mock-up. Fusion Engineering and Design, 2007, 82, 2095-2104.	1.9	32
7	Systematic study of the normal and pumped state of high efficiency diamond particle detectors grown by chemical vapor deposition. Journal of Applied Physics, 2001, 89, 1430-1435.	2.5	31
8	Synthetic single crystal diamond as a fission reactor neutron flux monitor. Applied Physics Letters, 2007, 90, 183509.	3.3	31
9	Neutronics experiments on HCPB and HCLL TBM mock-ups in preparation of nuclear measurements in ITER. Fusion Engineering and Design, 2010, 85, 1675-1680.	1.9	30
10	14 MeV Neutrons for 99Mo/99mTc Production: Experiments, Simulations and Perspectives. Molecules, 2018, 23, 1872.	3.8	30
11	Development of a mobile and repetitive plasma focus. Plasma Sources Science and Technology, 2004, 13, 272-277.	3.1	27
12	Synthesis and characterization of a single-crystal chemical-vapor-deposition diamond particle detector. Applied Physics Letters, 2005, 86, 213507.	3.3	27
13	Neutron Detectors Based Upon Artificial Single Crystal Diamond. IEEE Transactions on Nuclear Science, 2009, 56, 2275-2279.	2.0	25
14	Development of self-powered neutron detectors for neutron flux monitoring in HCLL and HCPB ITER-TBM. Fusion Engineering and Design, 2014, 89, 2194-2198.	1.9	22
15	Spectrometric Performances of Monocrystalline Artificial Diamond Detectors Operated at High Temperature. IEEE Transactions on Nuclear Science, 2012, 59, 2416-2423.	2.0	20
16	A Novel Microdosimeter Based Upon Artificial Single Crystal Diamond. IEEE Transactions on Nuclear Science, 2012, 59, 2409-2415.	2.0	20
17	Design and validation of a photon insensitive multidetector neutron spectrometer based on Dysprosium activation foils. Radiation Measurements, 2011, 46, 1712-1715.	1.4	19
18	Response of LaBr3(Ce) scintillators to 2.5 MeV fusion neutrons. Review of Scientific Instruments, 2013, 84, 123505.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Extreme UV single crystal diamond Schottky photodiode in planar and transverse configuration. <i>Diamond and Related Materials</i> , 2010, 19, 78-82.	3.9	18
20	Sensitivity and uncertainty analyses of the tritium production in the HCPB breeder blanket mock-up experiment. <i>Fusion Engineering and Design</i> , 2007, 82, 2406-2412.	1.9	15
21	Properties of Diamond-Based Neutron Detectors Operated in Harsh Environments. <i>Journal of Nuclear Engineering</i> , 2021, 2, 422-470.	1.6	15
22	ITER relevant developments in neutron diagnostics during the JET Trace Tritium campaign. <i>Fusion Engineering and Design</i> , 2005, 74, 835-839.	1.9	14
23	Growth and characterization of single crystal CVD diamond film based nuclear detectors. <i>Diamond and Related Materials</i> , 2006, 15, 292-295.	3.9	14
24	Neutron detection at jet using artificial diamond detectors. <i>Fusion Engineering and Design</i> , 2007, 82, 1174-1178.	1.9	14
25	Comparing active and passive Bonner Sphere Spectrometers in the 2.5 MeV quasi mono-energetic neutron field of the ENEA Frascati Neutron Generator (FNG). <i>Radiation Measurements</i> , 2011, 46, 1757-1760.	1.4	14
26	X-Ray Detection by Using CVD Single Crystal Diamond Detector. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 849-852.	2.0	13
27	Performance test of radiation detectors developed for ITER-TBM. <i>Fusion Engineering and Design</i> , 2018, 136, 1386-1390.	1.9	13
28	New developments in the diagnostics for the fusion products on JET in preparation for ITER (invited). <i>Review of Scientific Instruments</i> , 2010, 81, 10E136.	1.3	12
29	Thermal and fast neutron dosimetry using artificial single crystal diamond detectors. <i>Radiation Measurements</i> , 2011, 46, 1686-1689.	1.4	12
30	Development and application of CVD diamond detectors to 14 MeV neutron flux monitoring. <i>Radiation Protection Dosimetry</i> , 2004, 110, 233-236.	0.8	11
31	Neutronics analysis and nuclear heating measurement up to the TFC in a mock-up of the ITER inboard shield. <i>Fusion Engineering and Design</i> , 2012, 87, 910-915.	1.9	11
32	Feasibility study of an intense D-T fusion source: "The New Sordani". <i>Fusion Engineering and Design</i> , 2014, 89, 2141-2144.	1.9	11
33	The F4E programme on nuclear data validation and nuclear instrumentation techniques for TBM in ITER. <i>Fusion Engineering and Design</i> , 2014, 89, 2169-2173.	1.9	10
34	Neutronics experiments, radiation detectors and nuclear techniques development in the EU in support of the TBM design for ITER. <i>Fusion Engineering and Design</i> , 2015, 96-97, 2-7.	1.9	10
35	Calibration of the neutron yield measurement system on FTU tokamak. <i>Review of Scientific Instruments</i> , 1990, 61, 3536-3539.	1.3	9
36	Analysis of traps in high quality CVD diamond films through the temperature dependence of carrier dynamics. <i>Diamond and Related Materials</i> , 2003, 12, 1733-1737.	3.9	9

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37	Neutronics design and supporting experimental activities in the EU. Fusion Engineering and Design, 2006, 81, 1169-1181.	1.9	9
38	Thermal neutron dosimeter by synthetic single crystal diamond devices. Applied Radiation and Isotopes, 2009, 67, S183-S185.	1.5	9
39	A plan of fusion neutron benchmark experiments using the Frascati neutron generator (FNG). Fusion Engineering and Design, 1991, 18, 293-296.	1.9	8
40	X-ray beam monitor made by thin-film CVD single-crystal diamond. Journal of Synchrotron Radiation, 2012, 19, 1015-1020.	2.4	8
41	Design optimization and performances of New Sorgentina Fusion Source (NSFS) supporting materials research. Fusion Engineering and Design, 2015, 96-97, 236-239.	1.9	8
42	Experimental and numerical calibration of the neutron activation system on the FTU tokamak. Review of Scientific Instruments, 1990, 61, 3157-3159.	1.3	7
43	Calibration of the Neutron Activation System on the Frascati Tokamak Upgrade: Comparison between Measured and Calculated Activation Response Coefficients. Fusion Science and Technology, 1991, 19, 431-439.	0.6	7
44	Trapping and detrapping behavior in CVD diamond particle detectors. Diamond and Related Materials, 2001, 10, 645-649.	3.9	7
45	Measurement and analysis of neutron and gamma-ray flux spectra in SiC. Fusion Engineering and Design, 2003, 69, 379-383.	1.9	7
46	Sensitivity and uncertainty analyses of 14 MeV neutron benchmark experiment on silicon carbide. Fusion Engineering and Design, 2003, 69, 437-442.	1.9	7
47	New developments in JET neutron, β^+ -ray and particle diagnostics with relevance to ITER. Nuclear Fusion, 2005, 45, S195-S202.	3.5	7
48	Experimental determination of electron and hole mean drift distance: Application to chemical vapor deposition diamond. Applied Physics Letters, 2003, 82, 4723-4725.	3.3	6
49	A dose rate experiment at JET for benchmarking the calculation direct one step method. Fusion Engineering and Design, 2007, 82, 2805-2811.	1.9	6
50	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2000, 244, 441-445.	1.5	5
51	Thermal detrapping analysis of pumping-related defects in diamond. Applied Physics Letters, 2003, 83, 3707-3709.	3.3	5
52	Separate measurement of electron and hole mean drift distance in CVD diamond. Diamond and Related Materials, 2004, 13, 929-933.	3.9	5
53	High collection efficiency in chemical vapor deposited diamond particle detectors. Diamond and Related Materials, 2000, 9, 998-1002.	3.9	4
54	Measurements of decay heat and validation of the European activation code system for fusion power plant applications. Fusion Engineering and Design, 2002, 63-64, 101-106.	1.9	4

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55	Neutron detection and dosimetry using polycrystalline CVD diamond detectors with high collection efficiency. Radiation Protection Dosimetry, 2006, 120, 345-348.	0.8	4
56	Multistrip synthetic single-crystal-diamond photodiode based on a p-type/intrinsic/Schottky metal transverse configuration. Europhysics Letters, 2011, 94, 28004.	2.0	4
57	Sensitivity and uncertainty analysis of the HCLL breeder blanket experiment in the frame of the EU fusion technology programme. Nuclear Engineering and Design, 2011, 241, 1243-1247.	1.7	4
58	Status and verification strategy for ITER neutronics. Fusion Engineering and Design, 2014, 89, 1865-1869.	1.9	4
59	Development of an high resolution neutron spectroscopy system using a diamond detector and a remote digital acquisition methodology. Fusion Engineering and Design, 2014, 89, 2184-2188.	1.9	4
60	Growth of detector grade CVD diamond films and microscopic interpretation of their efficiency and charge collection distance in the normal and pumped states. Diamond and Related Materials, 2001, 10, 1783-1787.	3.9	3
61	Analysis of traps in CVD diamond films through thermal depumping of nuclear detectors. Physica Status Solidi A, 2004, 201, 2542-2547.	1.7	3
62	Development of the DT-GEM: A Gas Electron Multiplier Detector for Neutron Diagnostics in Controlled Thermonuclear Fusion. IEEE Transactions on Nuclear Science, 2009, 56, 1102-1107.	2.0	3
63	Mixed $n\alpha$ fields dosimetry at low doses by means of different solid state dosimeters. Radiation Measurements, 2011, 46, 1737-1740.	1.4	3
64	Results of an integration study of a diagnostics port plug in ITER. Fusion Engineering and Design, 2013, 88, 602-606.	1.9	3
65	In phantom Dosimetric response of tooth enamel to neutrons. Radiation Protection Dosimetry, 2004, 110, 559-563.	0.8	2
66	Unconventional plasma focus devices. IEEE Transactions on Plasma Science, 2006, 34, 36-54.	1.3	1
67	Neutron Spectroscopy by Means of Artificial Diamond Detectors Using a Remote Read Out Scheme. IEEE Transactions on Nuclear Science, 2010, , .	2.0	1
68	Instrumentation for Neutron Flux and Tritium Production Rate Monitoring in the European TBM in ITER. IEEE Transactions on Plasma Science, 2014, 42, 3441-3444.	1.3	1
69	Neutronics experiment for the validation of activation properties of DEMO materials using real DT neutron spectrum at JET. Fusion Engineering and Design, 2006, 81, 1485-1490.	1.9	0
70	Progress in neutron diagnostics at JET. European Physical Journal D, 2006, 56, B118-B124.	0.4	0
71	Integral Benchmark Experiments on a Large Copper Block Using the GELINA Accelerator to Validate natCu Neutron Cross Sections From Different Neutron Cross-Sectional Databases. IEEE Transactions on Plasma Science, 2019, 47, 2943-2949.	1.3	0