FranÃ§ois Trompier

List of Publications by Year
in descending order

112	3,732	94269	149479
papers	citations	37 h-index	56 g-index

114	114	114	2370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mesenchymal stem cells home to injured tissues when co-infused with hematopoietic cells to treat a radiation-induced multi-organ failure syndrome. Journal of Gene Medicine, 2003, 5, 1028-1038.	1.4	395
2	Review of retrospective dosimetry techniques for external ionising radiation exposures. Radiation Protection Dosimetry, 2011, 147, 573-592.	0.4	217
3	Emerging therapy for improving wound repair of severe radiation burns using local bone marrow-derived stem cell administrations. Wound Repair and Regeneration, 2010, 18, 50-58.	1.5	182
4	Small fields output factors measurements and correction factors determination for several detectors for a CyberKnife^{Â®} and linear accelerators equipped with microMLC and circular cones. Medical Physics, 2013, 40, 071725.	1.6	122
5	BiodosEPR-2006 Meeting: Acute dosimetry consensus committee recommendations on biodosimetry applications in events involving uses of radiation by terrorists and radiation accidents. Radiation Measurements, 2007, 42, 972-996.	0.7	115
6	Lessons from recent accidents in radiation therapy in France. Radiation Protection Dosimetry, 2008, 131, 130-135.	0.4	91
7	Protocol for emergency EPR dosimetry in fingernails. Radiation Measurements, 2007, 42, 1085-1088.	0.7	74
8	The 3rd international intercomparison on EPR tooth dosimetry: Part 1, general analysis. Applied Radiation and Isotopes, 2005, 62, 163-171.	0.7	70
9	The 4th international comparison on EPR dosimetry with tooth enamel. Radiation Measurements, 2011, 46, 765-771.	0.7	65
10	State of the art in nail dosimetry: free radicals identification and reaction mechanisms. Radiation and Environmental Biophysics, 2014, 53, 291-303.	0.6	61
11	RADIATION ACCIDENT DOSIMETRY ON GLASS BY TL AND EPR SPECTROMETRY. Health Physics, 2010, 98, 400-405.	0.3	58
12	Measurement of stray radiation within a scanning proton therapy facility: EURADOS WG9 intercomparison exercise of active dosimetry systems. Medical Physics, 2015, 42, 2572-2584.	1.6	56
13	Realising the European Network of Biodosimetry (RENEB). Radiation Protection Dosimetry, 2012, 151, 621-625.	0.4	54
14	Electron paramagnetic resonance radiation dosimetry in fingernails. Radiation Measurements, 2009, 44, 6-10.	0.7	52
15	RENEB â€“ Running the European Network of biological dosimetry and physical retrospective dosimetry. International Journal of Radiation Biology, 2017, 93, 2-14.	1.0	52
16	Electron paramagnetic resonance in human fingernails: the sponge model implication. Radiation and Environmental Biophysics, 2008, 47, 515-526.	0.6	51
17	RADIATION ACCIDENT DOSIMETRY ON ELECTRONIC COMPONENTS BY OSL. Health Physics, 2010, 98, 440-445.	0.3	51
18	EPR Retrospective Dosimetry with Fingernails. Health Physics, 2014, 106, 798-805.	0.3	51

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19	Overview of physical and biophysical techniques for accident dosimetry. Radiation Protection Dosimetry, 2011, 144, 571-574.	0.4	48
20	EPR dosimetry intercomparison using smart phone touch screen glass. Radiation and Environmental Biophysics, 2014, 53, 311-20.	0.6	48
21	Integration of new biological and physical retrospective dosimetry methods into EU emergency response plans â€“ joint RENEB and EURADOS inter-laboratory comparisons. International Journal of Radiation Biology, 2017, 93, 99-109.	1.0	48
22	EPR dosimetry in chemically treated fingernails. Radiation Measurements, 2007, 42, 1110-1113.	0.7	46
23	Operational guidance for radiation emergency response organisations in Europe for using biodosimetric tools developed in EU MULTIBIODOSE project. Radiation Protection Dosimetry, 2015, 164, 165-169.	0.4	46
24	Characterization and optimization of EBT2 radiochromic films dosimetry system for precise measurements of output factors in small fields used in radiotherapy. Radiation Measurements, 2012, 47, 40-49.	0.7	45
25	Electron paramagnetic resonance radiation dose assessment in fingernails of the victim exposed to high dose as result of an accident. Radiation and Environmental Biophysics, 2014, 53, 755-762.	0.6	45
26	Comparison of autologous cell therapy and granulocyte-colony stimulating factor (G-CSF) injection vs. G-CSF injection alone for the treatment of acute radiation syndrome in a non-human primate model. International Journal of Radiation Oncology Biology Physics, 2005, 63, 911-920.	0.4	43
27	Intercomparison of radiation protection devices in a high-energy stray neutron field. Part III: Instrument response. Radiation Measurements, 2009, 44, 673-691.	0.7	43
28	Interlaboratory comparison of tooth enamel dosimetry on Semipalatinsk region: Part 1, general view. Radiation Measurements, 2007, 42, 1005-1014.	0.7	42
29	EX vivo ESR measurements associated with Monte Carlo calculations for accident dosimetry: application to the 2001 Georgian accident. Radiation Protection Dosimetry, 2006, 119, 500-505.	0.4	41
30	EPR dosimetry for actual and suspected overexposures during radiotherapy treatments in Poland. Radiation Measurements, 2007, 42, 1025-1028.	0.7	41
31	Physical dosimetric reconstruction of a radiological accident due to gammagraphy equipment that occurred in Dakar and Abidjan in summer 2006. Radiation Measurements, 2008, 43, 698-703.	0.7	41
32	Realising the European network of biodosimetry: RENEB--status quo. Radiation Protection Dosimetry, 2015, 164, 42-45.	0.4	41
33	A comparison of ambient dose equivalent meters and dose calculations at constant flight conditions. Radiation Measurements, 2007, 42, 323-333.	0.7	40
34	Interlaboratory comparison of tooth enamel dosimetry on Semipalatinsk region: Part 2, Effects of spectrum processing. Radiation Measurements, 2007, 42, 1015-1020.	0.7	39
35	Intercomparison of radiation protection instrumentation in a pulsed neutron field. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 203-213.	0.7	39
36	Exposure of aircraft crew to cosmic radiation: on-board intercomparison of various dosemeters. Radiation Protection Dosimetry, 2004, 110, 411-415.	0.4	38

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37	Monte Carlo modeling of proton therapy installations: a global experimental method to validate secondary neutron dose calculations. Physics in Medicine and Biology, 2014, 59, 2747-2765.	1.6	33
38	UNCERTAINTY ON RADIATION DOSES ESTIMATED BY BIOLOGICAL AND RETROSPECTIVE PHYSICAL METHODS. Radiation Protection Dosimetry, 2018, 178, 382-404.	0.4	33
39	Radiation-induced signals analysed by EPR spectrometry applied to fortuitous dosimetry. Annali Dell'Istituto Superiore Di Sanita, 2009, 45, 287-96.	0.2	33
40	EPR dosimetry of glass substrate of mobile phone LCDs. Radiation Measurements, 2011, 46, 827-827.	0.7	32
41	FINGERNAIL DOSIMETRY: CURRENT STATUS AND PERSPECTIVES. Health Physics, 2010, 98, 296-300.	0.3	30
42	Overview of physical dosimetry methods for triage application integrated in the new European network RENEB. International Journal of Radiation Biology, 2017, 93, 65-74.	1.0	30
43	Implementation of ICP-MS Protocols for Uranium Urinary Measurements in Worker Monitoring. Health Physics, 1999, 77, 455-461.	0.3	28
44	DOSE RECONSTRUCTION BY EPR SPECTROSCOPY OF TOOTH ENAMEL: APPLICATION TO THE POPULATION OF ZABORIE VILLAGE EXPOSED TO HIGH RADIOACTIVE CONTAMINATION AFTER THE CHERNOBYL ACCIDENT. Health Physics, 2004, 86, 121-134.	0.3	28
45	EPR dosimetry in a mixed neutron and gamma radiation field. Radiation Protection Dosimetry, 2004, 110, 437-442.	0.4	27
46	Electron paramagnetic resonance in irradiated fingernails: variability of dose dependence and possibilities of initial dose assessment. Radiation and Environmental Biophysics, 2009, 48, 295-310.	0.6	27
47	Radiation protection of workers associated with secondary neutrons produced by medical linear accelerators. Radiation Measurements, 2008, 43, 939-943.	0.7	26
48	The RENEB operational basis: complement of established biodosimetric assays. International Journal of Radiation Biology, 2017, 93, 15-19.	1.0	26
49	Study of the Stability of EPR Signals After Irradiation OF Fingernail Samples. Health Physics, 2012, 103, 175-180.	0.3	23
50	Q-band electron paramagnetic resonance dosimetry in tooth enamel: biopsy procedure and determination of dose detection limit. Radiation and Environmental Biophysics, 2014, 53, 305-310.	0.6	23
51	Calibration of EPR signal dose response of tooth enamel to photons: experiment and Monte Carlo simulation. Radiation Protection Dosimetry, 2004, 108, 303-315.	0.4	22
52	Investigation of the influence of calibration practices on cytogenetic laboratory performance for dose estimation. International Journal of Radiation Biology, 2017, 93, 118-126.	1.0	22
53	Importance of dosimetry protocol for cell irradiation on a low X-rays facility and consequences for the biological response. International Journal of Radiation Biology, 2018, 94, 597-606.	1.0	21
54	Reinjection of Ex Vivoâ€“Expanded Primate Bone Marrow Mononuclear Cells Strongly Reduces Radiation-Induced Aplasia. Journal of Hematotherapy and Stem Cell Research, 2002, 11, 549-564.	1.8	20

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55	Physical dosimetric reconstruction of a radiological accident at Fleurus (Belgium) on 11 March 2006. Radiation Measurements, 2008, 43, 845-848.	0.7	20
56	CONCORD: comparison of cosmic radiation detectors in the radiation field at aviation altitudes. Journal of Space Weather and Space Climate, 2016, 6, A24.	1.1	20
57	Uncertainty of fast biological radiation dose assessment for emergency response scenarios. International Journal of Radiation Biology, 2017, 93, 127-135.	1.0	20
58	PCC-FISH in Skin Fibroblasts for Local Dose Assessment: Biodosimetric Analysis of a Victim of the Georgian Radiological Accident. Radiation Research, 2004, 162, 365-376.	0.7	19
59	Validation of modelling the radiation exposure due to solar particle events at aircraft altitudes. Radiation Protection Dosimetry, 2008, 131, 51-58.	0.4	19
60	Feasibility of Q-Band EPR Dosimetry in Biopsy Samples of Dental Enamel, Dentine and Bone. Applied Magnetic Resonance, 2013, 44, 375-387.	0.6	19
61	EPR measurements of fingernails in Q-band. Radiation Measurements, 2011, 46, 888-892.	0.7	18
62	Criticality accident dosimetry systems: an international intercomparison at the silene reactor in 2002. Radiation Protection Dosimetry, 2004, 110, 429-436.	0.4	17
63	ESR investigation of joint use of dentin and tooth enamel to estimate photon and neutron dose components of a mixed field. Radiation Protection Dosimetry, 2006, 120, 191-196.	0.4	17
64	DENTAL ENAMEL EPR DOSIMETRY: COMPARATIVE TESTING OF THE SPECTRA PROCESSING METHODS FOR DETERMINATION OF RADIATION-INDUCED SIGNAL AMPLITUDE. Health Physics, 2010, 98, 345-351.	0.3	17
65	GPS-coupled contaminant monitors on free-ranging Chernobyl wolves challenge a fundamental assumption in exposure assessments. Environment International, 2019, 133, 105152.	4.8	17
66	RENEB/EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. International Journal of Radiation Biology, 2021, 97, 1181-1198.	1.0	17
67	Radiation-induced damage analysed by luminescence methods in retrospective dosimetry and emergency response. Annali Dell'Istituto Superiore Di Sanita, 2009, 45, 297-306.	0.2	17
68	The results of cosmic radiation in-flight TEPC measurements during the CAATER flight campaign and comparison with simulation. Radiation Protection Dosimetry, 2006, 125, 412-415.	0.4	16
69	An operational approach for aircraft crew dosimetry: the SIEVERT system. Radiation Protection Dosimetry, 2006, 125, 421-424.	0.4	16
70	REFLECT â€“ Research flight of EURADOS and CRREAT: Intercomparison of various radiation dosimeters onboard aircraft. Radiation Measurements, 2020, 137, 106433.	0.7	16
71	NEW APPROACH FOR DOSE RECONSTRUCTION. Health Physics, 2000, 79, 251-256.	0.3	15
72	RADIATION ACCIDENT DOSIMETRY ON PLASTICS BY EPR SPECTROMETRY. Health Physics, 2010, 98, 388-394.	0.3	15

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73	Configuration and validation of an analytical model predicting secondary neutron radiation in proton therapy using Monte Carlo simulations and experimental measurements. Physica Medica, 2015, 31, 248-256.	0.4	15
74	New insights on P-related paramagnetic point defects in irradiated phosphate glasses: Impact of glass network type and irradiation dose. Journal of Applied Physics, 2014, 116, .	1.1	14
75	POSSIBLE NATURE OF THE RADIATION-INDUCED SIGNAL IN NAILS: HIGH-FIELD EPR, CONFIRMING CHEMICAL SYNTHESIS, AND QUANTUM CHEMICAL CALCULATIONS. Radiation Protection Dosimetry, 2016, 172, 112-120.	0.4	14
76	Ge- and Al-related point defects generated by gamma irradiation in nanostructured erbium-doped optical fiber preforms. Journal of Materials Science, 2016, 51, 10245-10261.	1.7	14
77	Medical Response to Radiological Accidents in Latin America and International Assistance. Radiation Research, 2016, 185, 359-365.	0.7	13
78	Study of materials for mixed field dosimetry by EPR spectroscopy. Radiation Protection Dosimetry, 2006, 120, 205-209.	0.4	12
79	Secondary exposure for 73 and 200 MeV proton therapy. Radiation Protection Dosimetry, 2006, 125, 349-354.	0.4	12
80	The harmonization process to set up and maintain an operational biological and physical retrospective dosimetry network: QA QM applied to the RENEB network. International Journal of Radiation Biology, 2017, 93, 81-86.	1.0	12
81	Capabilities of the RENEB network for research and large scale radiological and nuclear emergency situations. International Journal of Radiation Biology, 2017, 93, 136-141.	1.0	11
82	Reference dosimetry measurements for the international intercomparison of criticality accident dosimetry SILENE 9-21 June 2002. Radiation Protection Dosimetry, 2004, 110, 459-464.	0.4	10
83	The SIEVERT system for aircrew dosimetry. Radiation Protection Dosimetry, 2009, 136, 282-285.	0.4	10
84	RENEB accident simulation exercise. International Journal of Radiation Biology, 2017, 93, 75-80.	1.0	10
85	Intercomparison of personal and ambient dosimeters in extremely high-dose-rate pulsed photon fields. Radiation Physics and Chemistry, 2020, 172, 108764.	1.4	9
86	Non-invasive determination of the irradiation dose in fingers using low-frequency EPR. Physics in Medicine and Biology, 2004, 49, 2891-2898.	1.6	8
87	â€band EPR imaging as a tool for gradient dose reconstruction in irradiated bones. Medical Physics, 2009, 36, 4223-4229.	1.6	8
88	Characterization of 7LiF:Mg,Ti TLD micro-cubes. Radiation Measurements, 2010, 45, 646-648.	0.7	8
89	Influence of nails polish in EPR dosimetry with human nails. Radiation Measurements, 2015, 75, 6-8.	0.7	8
90	Estimation of Radiation Doses Delivered by Terrestrial Gamma Ray Flashes Within Leaderâ€Based Production Models. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033907.	1.2	8

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91	Secondary neutron dose contribution from pencil beam scanning, scattered and spatially fractionated proton therapy. Physics in Medicine and Biology, 2021, 66, 225010.	1.6	8
92	Determinations of H*(10) and its dose components onboard aircraft. Radiation Protection Dosimetry, 2007, 126, 577-580.	0.4	7
93	Dosimetry of the mixed field irradiation facility CALIBAN. Radiation Measurements, 2008, 43, 1077-1080.	0.7	7
94	Evaluating the Potential of Q-Band ESR Spectroscopy for Dose Reconstruction of Fossil Tooth Enamel. PLoS ONE, 2016, 11, e0150346.	1.1	7
95	Relation between organ and whole body doses and local doses measured by ESR for standard and realistic neutron and photon external overexposures. Radiation Protection Dosimetry, 2006, 125, 355-360.	0.4	6
96	A comparison of the response of PADC neutron dosemeters in high-energy neutron fields. Radiation Protection Dosimetry, 2014, 161, 78-81.	0.4	6
97	Dosimetry for Cell Irradiation using Orthovoltage (40-300 kV) X-Ray Facilities. Journal of Visualized Experiments, 2021, , .	0.2	6
98	Hematopoietic Recovery using Multi-Cytokine Therapy in 8 Patients Presenting Radiation-Induced Myelosuppression after Radiological Accidents. Radiation Research, 2021, 196, 668-679.	0.7	6
99	EPR Dosimetry in Human Fingernails: Investigation of the Origin of the Endogenous Signal and Implications for Estimating Dose from Nail Signals. Applied Magnetic Resonance, 2022, 53, 319-334.	0.6	6
100	Relative sensitivity of tooth enamel to fission neutrons: Effect of secondary protons. Radiation Measurements, 2005, 39, 509-514.	0.7	5
101	Feasibility study of an active extremity dosimetry prototype. Radiation Protection Dosimetry, 2005, 115, 548-552.	0.4	5
102	Effect of neutron irradiation on dosimetric properties of TLD-600H (6LiF:Mg,Cu,P). Radiation Measurements, 2011, 46, 1426-1431.	0.7	5
103	Performance evolution of TLD-700H/600H dosimetry system at extended issue periods. Radiation Measurements, 2018, 108, 45-51.	0.7	5
104	Franco-Russian comparison of mixed neutron and gamma radiation field dosimeters at the SilÃ¨ne reactor. Radiation Measurements, 2001, 33, 859-866.	0.7	4
105	THE NEUTRON DOSE CONVERSION COEFFICIENTS CALCULATION IN HUMAN TOOTH ENAMEL IN AN ANTHROPOMORPHIC PHANTOM. Health Physics, 2010, 98, 369-377.	0.3	4
106	Electron Paramagnetic Resonance Retrospective Dosimetry. , 2011, , .		3
107	KevlarÂ® as a Potential Accident Radiation Dosimeter for First Responders, Law Enforcement and Military Personnel. Health Physics, 2016, 111, 127-133.	0.3	3
108	What if a major radiation incident happened during a pandemic? â€“ Considerations of the impact on biodosimetry. International Journal of Radiation Biology, 2022, 98, 825-830.	1.0	3

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109	Dosimetric response of human bone tissue to photons and fission neutrons. Radiation Measurements, 2008, 43, 837-840.	0.7	2
110	The angular dependence of an Si energy deposition spectrometer response at several radiation sources. Radiation Measurements, 2005, 39, 323-327.	0.7	1
111	Workplace characterisation in case of rail transport of radioactive materials. Radiation Protection Dosimetry, 2006, 125, 369-375.	0.4	0
112	Dose Variations Using an X-Ray Cabinet to Establish in vitro Dose-Response Curves for Biological Dosimetry Assays. Frontiers in Public Health, 2022, 10, .	1.3	0