Frederic Tessier

List of Publications by Year
in descending order

28	659	687363 13	580821 25
papers	citations	h-index	g-index

28	28	28	586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Technical Note: Implications of using EGSnrc instead of EGS4 for extracting electron stopping powers from measured energy spectra. Medical Physics, 2021, 48, 1996-2003.	3.0	1
2	Determination of factors for ion chambers used in the calibration of Leksell Gamma Knife Perfexion model using EGSnrc and PENELOPE Monte Carlo codes. Medical Physics, 2018, 45, 1748-1757.	3.0	15
3	Extracting W_{air} from the electron beam measurements of Domen and Lamperti. Medical Physics, 2018, 45, 370-381.	3.0	3
4	A system for the measurement of electron stopping powers: proof of principle using a pure Î²-emitting source. Radiation Physics and Chemistry, 2018, 149, 134-141.	2.8	2
5	EGSnrc calculation of activity calibration factors for the Vinten ionization chamber. Applied Radiation and Isotopes, 2018, 134, 100-104.	1.5	10
6	Quantitative ionization chamber alignment to a water surface: Theory and simulation. Medical Physics, 2017, 44, 3794-3804.	3.0	3
7	The inverse-square gamma-irradiation anomaly of the Nuclear Enterprises 2575 large-volume ionisation chamber. Radiation Protection Dosimetry, 2015, 167, 385-391.	0.8	2
8	GafchromicÂ® film dosimetry for low energy X radiation. Radiation Measurements, 2014, 67, 48-54.	1.4	4
9	Radiation shielding materials and radiation scatter effects for interventional radiology (IR) physicians. Medical Physics, 2012, 39, 4537-4546.	3.0	82
10	Investigation of voxel warping and energy mapping approaches for fast 4D Monte Carlo dose calculations in deformed geometries using VMC++. Physics in Medicine and Biology, 2011, 56, 5187-5202.	3.0	19
11	MO-G-BRA-06: A Primary Standard for HDR Brachytherapy Calibrations. Medical Physics, 2011, 38, 3734-3734.	3.0	0
12	Effective point of measurement of thimble ion chambers in megavoltage photon beams. Medical Physics, 2010, 37, 96-107.	3.0	41
13	Zeroâ€shift thimble ionization chamber. Medical Physics, 2010, 37, 1161-1163.	3.0	6
14	The Electroosmotic Flow (EOF). Methods in Molecular Biology, 2010, 583, 121-134.	0.9	14
15	Calculation of the electronâ€“electron bremsstrahlung cross-section in the field of atomic electrons. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 625-634.	1.4	13
16	Effective molecular diffusion coefficient in a two-phase gel medium. Journal of Chemical Physics, 2006, 124, 204903.	3.0	4
17	Modulation of Electroosmotic Flow Strength with End-Grafted Polymer Chains. Macromolecules, 2006, 39, 1250-1260.	4.8	56
18	Effective Debye length in closed nanoscopic systems: A competition between two length scales. Electrophoresis, 2006, 27, 686-693.	2.4	28

#	Article	IF	Citations
19	Control and Quenching of Electroosmotic Flow with End-Grafted Polymer Chains. Macromolecules, 2005, 38, 6752-6754.	4.8	29
20	Deformation, Stretching, and Relaxation of Singleâ€Polymer Chains: Fundamentals and Examples#. Soft Materials, 2004, 2, 155-182.	1.7	15
21	Deformation, Stretching, and Relaxation of Single-Polymer Chains. , 2004, , 73-105.		0
22	Networks with fourfold connectivity in two dimensions. Physical Review E, 2003, 67, 011903.	2.1	10
23	Deformation, Stretching, and Relaxation of Singleâ€Polymer Chains: Fundamentals and Examples. Soft Materials, 2003, 1, 365-391.	1.7	9
24	Electrophoretic Separation of Long Polyelectrolytes in Submolecular-Size Constrictions:Â A Monte Carlo Study. Macromolecules, 2002, 35, 4791-4800.	4.8	77
25	Theory of DNA electrophoresis (â^¼ 1999â€Šâ€“2002â€ŠÂ½). Electrophoresis, 2002, 23, 3791-3816.	2.4	69
26	Strategies for the separation of polyelectrolytes based on non-linear dynamics and entropic ratchets in a simple microfluidic device. Applied Physics A: Materials Science and Processing, 2002, 75, 285-291.	2.3	31
27	An exactly solvable Ogston model of gel electrophoresis: VIII. Nonconducting gel fibers, curved field lines, and the Nernst-Einstein relation. Electrophoresis, 2001, 22, 2631-2638.	2.4	23
28	Theory of DNA electrophoresis: A look at some current challenges. Electrophoresis, 2000, 21, 3873-3887.	2.4	93