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	Theory of DNA electrophoresis: A look at some current challenges. Electrophoresis, 2000, 21, 3873-3887.	2.4	93
2	Radiation shielding materials and radiation scatter effects for interventional radiology (IR) physicians. Medical Physics, 2012, 39, 4537-4546.	3.0	82
3	Electrophoretic Separation of Long Polyelectrolytes in Submolecular-Size Constrictions:Â A Monte Carlo Study. Macromolecules, 2002, 35, 4791-4800.	4.8	77
4	Theory of DNA electrophoresis (â^¼ 1999â€Šâ€“2002â€ŠÂ½). Electrophoresis, 2002, 23, 3791-3816.	2.4	69
5	Modulation of Electroosmotic Flow Strength with End-Grafted Polymer Chains. Macromolecules, 2006, 39, 1250-1260.	4.8	56
6	Effective point of measurement of thimble ion chambers in megavoltage photon beams. Medical Physics, 2010, 37, 96-107.	3.0	41
7	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
8	Control and Quenching of Electroosmotic Flow with End-Grafted Polymer Chains. Macromolecules, 2005, 38, 6752-6754.	4.8	29
9	Effective Debye length in closed nanoscopic systems: A competition between two length scales. Electrophoresis, 2006, 27, 686-693.	2.4	28
10	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
11	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
12	Deformation, Stretching, and Relaxation of Singleâ€Polymer Chains: Fundamentals and Examples#. Soft Materials, 2004, 2, 155-182.	1.7	15
13	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
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	Networks with fourfold connectivity in two dimensions. Physical Review E, 2003, 67, 011903.	2.1	10
17	EGSnrc calculation of activity calibration factors for the Vinten ionization chamber. Applied Radiation and Isotopes, 2018, 134, 100-104.	1.5	10
18	Deformation, Stretching, and Relaxation of Singleâ€Polymer Chains: Fundamentals and Examples. Soft Materials, 2003, 1, 365-391.	1.7	9

#	Article	IF	Citations
19	Zeroâ€shift thimble ionization chamber. Medical Physics, 2010, 37, 1161-1163.	3.0	6
20	Effective molecular diffusion coefficient in a two-phase gel medium. Journal of Chemical Physics, 2006, 124, 204903.	3.0	4
21	GafchromicÂ® film dosimetry for low energy X radiation. Radiation Measurements, 2014, 67, 48-54.	1.4	4
22	Quantitative ionization chamber alignment to a water surface: Theory and simulation. Medical Physics, 2017, 44, 3794-3804.	3.0	3
23	Extracting W_{air} from the electron beam measurements of Domen and Lamperti. Medical Physics, 2018, 45, 370-381.	3.0	3
24	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
25	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
26	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
27	Deformation, Stretching, and Relaxation of Single-Polymer Chains. , 2004, , 73-105.		0
28	MO-G-BRA-06: A Primary Standard for HDR Brachytherapy Calibrations. Medical Physics, 2011, 38, 3734-3734.	3.0	0