

# Frederic Tessier

## List of Publications by Year in descending order

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28  
papers

659  
citations

687335

13  
h-index

580810

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of DNA electrophoresis: A look at some current challenges. <i>Electrophoresis</i> , 2000, 21, 3873-3887.	2.4	93
2	Radiation shielding materials and radiation scatter effects for interventional radiology (IR) physicians. <i>Medical Physics</i> , 2012, 39, 4537-4546.	3.0	82
3	Electrophoretic Separation of Long Polyelectrolytes in Submolecular-Size Constrictions: A Monte Carlo Study. <i>Macromolecules</i> , 2002, 35, 4791-4800.	4.8	77
4	Theory of DNA electrophoresis (1/4 1999-2002). <i>Electrophoresis</i> , 2002, 23, 3791-3816.	2.4	69
5	Modulation of Electroosmotic Flow Strength with End-Grafted Polymer Chains. <i>Macromolecules</i> , 2006, 39, 1250-1260.	4.8	56
6	Effective point of measurement of thimble ion chambers in megavoltage photon beams. <i>Medical Physics</i> , 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. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 75, 285-291.	2.3	31
8	Control and Quenching of Electroosmotic Flow with End-Grafted Polymer Chains. <i>Macromolecules</i> , 2005, 38, 6752-6754.	4.8	29
9	Effective Debye length in closed nanoscopic systems: A competition between two length scales. <i>Electrophoresis</i> , 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. <i>Electrophoresis</i> , 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++. <i>Physics in Medicine and Biology</i> , 2011, 56, 5187-5202.	3.0	19
12	Deformation, Stretching, and Relaxation of Single Polymer Chains: Fundamentals and Examples#. <i>Soft Materials</i> , 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 PENLOPE Monte Carlo codes. <i>Medical Physics</i> , 2018, 45, 1748-1757.	3.0	15
14	The Electroosmotic Flow (EOF). <i>Methods in Molecular Biology</i> , 2010, 583, 121-134.	0.9	14
15	Calculation of the electron bremsstrahlung cross-section in the field of atomic electrons. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 625-634.	1.4	13
16	Networks with fourfold connectivity in two dimensions. <i>Physical Review E</i> , 2003, 67, 011903.	2.1	10
17	EGSnrc calculation of activity calibration factors for the Vinten ionization chamber. <i>Applied Radiation and Isotopes</i> , 2018, 134, 100-104.	1.5	10
18	Deformation, Stretching, and Relaxation of Single Polymer Chains: Fundamentals and Examples. <i>Soft Materials</i> , 2003, 1, 365-391.	1.7	9

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19	Zero-shift thimble ionization chamber. <i>Medical Physics</i> , 2010, 37, 1161-1163.	3.0	6
20	Effective molecular diffusion coefficient in a two-phase gel medium. <i>Journal of Chemical Physics</i> , 2006, 124, 204903.	3.0	4
21	Gafchromic® film dosimetry for low energy X radiation. <i>Radiation Measurements</i> , 2014, 67, 48-54.	1.4	4
22	Quantitative ionization chamber alignment to a water surface: Theory and simulation. <i>Medical Physics</i> , 2017, 44, 3794-3804.	3.0	3
23	Extracting $\langle W \rangle_{\text{air}}$ from the electron beam measurements of Domen and Lamperti. <i>Medical Physics</i> , 2018, 45, 370-381.	3.0	3
24	The inverse-square gamma-irradiation anomaly of the Nuclear Enterprises 2575 large-volume ionisation chamber. <i>Radiation Protection Dosimetry</i> , 2015, 167, 385-391.	0.8	2
25	A system for the measurement of electron stopping powers: proof of principle using a pure $^{125}\text{I}$ -emitting source. <i>Radiation Physics and Chemistry</i> , 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. <i>Medical Physics</i> , 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. <i>Medical Physics</i> , 2011, 38, 3734-3734.	3.0	0