

Lawrie B Skinner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1108970/publications.pdf>

Version: 2024-02-01

58
papers

3,003
citations

201658

27
h-index

161844

54
g-index

58
all docs

58
docs citations

58
times ranked

3490
citing authors

#	ARTICLE	IF	CITATIONS
1	The Stanford Volumetric Modulated Arc Therapy Total Body Irradiation Technique. <i>Practical Radiation Oncology</i> , 2022, 12, 245-258.	2.1	13
2	A Preliminary Report of Gonadal-Sparing TBI Using a VMAT Technique. <i>Practical Radiation Oncology</i> , 2021, 11, e134-e138.	2.1	9
3	Precision radiotherapy using monochromatic inverse Compton x-ray sources. <i>Medical Physics</i> , 2021, 48, 366-375.	3.0	2
4	Deep learning-augmented radiotherapy visualization with a cylindrical radioluminescence system. <i>Physics in Medicine and Biology</i> , 2021, 66, 045014.	3.0	2
5	Use of Audiovisual Assisted Therapeutic Ambience in Radiotherapy (AVATAR) for Anesthesia Avoidance in a Pediatric Patient With Down Syndrome. <i>Advances in Radiation Oncology</i> , 2021, 6, 100637.	1.2	1
6	A robotically assisted 3D printed quality assurance lung phantom for Calypso. <i>Physics in Medicine and Biology</i> , 2021, 66, 074005.	3.0	3
7	Radiation Therapy for Primary Cutaneous Gamma Delta Lymphoma Prior to Stem Cell Transplantation. <i>Cancer Investigation</i> , 2021, , 1-11.	1.3	0
8	CT-less electron radiotherapy simulation and planning with a consumer 3D camera. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 128-136.	1.9	3
9	Technical report: 3D-printed patient-specific scalp shield for hair preservation in total skin electron beam therapy. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2021, 18, 12-15.	1.9	3
10	Nontoxic electron collimators. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 73-81.	1.9	6
11	Cost Analysis of Audiovisual-Assisted Therapeutic Ambience in Radiation Therapy (AVATAR)-Aided Omission of Anesthesia in Radiation for Pediatric Malignancies. <i>Practical Radiation Oncology</i> , 2020, 10, e91-e94.	2.1	3
12	Technical Note: Evaluation of audiovisual biofeedback smartphone application for respiratory monitoring in radiation oncology. <i>Medical Physics</i> , 2020, 47, 5496-5504.	3.0	2
13	Impact of Audiovisual-Assisted Therapeutic Ambience in Radiation Therapy (AVATAR) on Anesthesia Use, Payer Charges, and Treatment Time in Pediatric Patients. <i>Practical Radiation Oncology</i> , 2020, 10, e272-e279.	2.1	8
14	Abdominal FLASH irradiation reduces radiation-induced gastrointestinal toxicity for the treatment of ovarian cancer in mice. <i>Scientific Reports</i> , 2020, 10, 21600.	3.3	119
15	Intensity modulated Ir-192 brachytherapy using high-Z 3D printed applicators. <i>Physics in Medicine and Biology</i> , 2020, 65, 155018.	3.0	10
16	Patient motion tracking for non-isocentric and non-coplanar treatments via fixed frame-of-reference 3D camera. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 162-166.	1.9	1
17	FLASH Irradiation Results in Reduced Severe Skin Toxicity Compared to Conventional-Dose-Rate Irradiation. <i>Radiation Research</i> , 2020, 194, 618-624.	1.5	64
18	Optimizing efficiency and safety in external beam radiotherapy using automated plan check (APC) tool and six sigma methodology. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 56-64.	1.9	16

#	ARTICLE	IF	CITATIONS
19	Tungsten filled 3D printed field shaping devices for electron beam radiation therapy. PLoS ONE, 2019, 14, e0217757.	2.5	17
20	Volumetric Modulated Arc Therapy and 3-Dimensional Printed Bolus in the Treatment of Refractory Primary Cutaneous Gamma Delta Lymphoma of the Bilateral Legs. Practical Radiation Oncology, 2019, 9, 220-225.	2.1	4
21	Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts. Technology in Cancer Research and Treatment, 2019, 18, 153303381987689.	1.9	5
22	Corium lavas: structure and properties of molten UO ₂ -ZrO ₂ under meltdown conditions. Scientific Reports, 2018, 8, 2434.	3.3	18
23	Probing the triplet correlation function in liquid water by experiments and molecular simulations. Physical Chemistry Chemical Physics, 2017, 19, 3265-3278.	2.8	14
24	Revisiting the hydration structure of aqueous Na ⁺ . Journal of Chemical Physics, 2017, 146, 084504.	3.0	90
25	Beyond sixfold coordinated Si in SiO ₂ glass at ultrahigh pressures. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10041-10046.	7.1	88
26	The structure of liquid UO ₂ in reducing gas atmospheres. Applied Physics Letters, 2017, 110, .	3.3	8
27	The Structure of Liquid and Amorphous Hafnia. Materials, 2017, 10, 1290.	2.9	31
28	The temperature dependence of intermediate range oxygen-oxygen correlations in liquid water. Journal of Chemical Physics, 2016, 145, 084503.	3.0	33
29	The structure of liquid water up to 360 MPa from x-ray diffraction measurements using a high Q-range and from molecular simulation. Journal of Chemical Physics, 2016, 144, 134504.	3.0	38
30	X-ray and Neutron Scattering of Water. Chemical Reviews, 2016, 116, 7570-7589.	47.7	170
31	Topological ordering in liquid UO ₂ . Journal of Physics Condensed Matter, 2016, 28, 015102.	1.8	2
32	Exploring the Structure of High Temperature, Iron-bearing Liquids. Materials Today: Proceedings, 2015, 2, S358-S363.	1.8	5
33	Note: Detector collimators for the nanoscale ordered materials diffractometer instrument at the Spallation Neutron Source. Review of Scientific Instruments, 2015, 86, 096105.	1.3	1
34	The structure of water around the compressibility minimum. Journal of Chemical Physics, 2014, 141, 214507.	3.0	132
35	Structure of Ba-Ti-Al-O glasses produced by aerodynamic levitation and laser heating. Physical Review B, 2014, 90, .	3.2	12
36	Structure of molten titanium dioxide. Physical Review B, 2014, 90, .	3.2	70

#	ARTICLE	IF	CITATIONS
37	Packing and the structural transformations in liquid and amorphous oxides from ambient to extreme conditions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10045-10048.	7.1	74
38	Atomistic insight into viscosity and density of silicate melts under pressure. Nature Communications, 2014, 5, 3241.	12.8	133
39	Molten uranium dioxide structure and dynamics. Science, 2014, 346, 984-987.	12.6	80
40	Ultrafast X-ray probing of water structure below the homogeneous ice nucleation temperature. Nature, 2014, 510, 381-384.	27.8	385
41	Low Cation Coordination in Oxide Melts. Physical Review Letters, 2014, 112, 157801.	7.8	62
42	Measurements of liquid and glass structures using aerodynamic levitation and in-situ high energy x-ray and neutron scattering. Journal of Non-Crystalline Solids, 2014, 383, 49-51.	3.1	41
43	A time resolved high energy X-ray diffraction study of cooling liquid SiO ₂ . Physical Chemistry Chemical Physics, 2013, 15, 8566.	2.8	35
44	Joint diffraction and modeling approach to the structure of liquid alumina. Physical Review B, 2013, 87, .	3.2	95
45	Benchmark oxygen-oxygen pair-distribution function of ambient water from x-ray diffraction measurements with a wide Q -range. Journal of Chemical Physics, 2013, 138, 074506.	3.0	407
46	Structure and diffusion of ZnO-SrO-CaO-Na ₂ O-SiO ₂ bioactive glasses: a combined high energy X-ray diffraction and molecular dynamics simulations study. RSC Advances, 2013, 3, 5966.	3.6	28
47	Structure and triclustering in Ba-Al-O glass. Physical Review B, 2012, 85, .	3.2	40
48	Structure of the floating water bridge and water in an electric field. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16463-16468.	7.1	65
49	Structural Changes in Vitreous GeSe ₄ under Pressure. Journal of Physical Chemistry C, 2012, 116, 2212-2217.	3.1	25
50	Structure of Molten CaSiO ₃ : Neutron Diffraction Isotope Substitution with Aerodynamic Levitation and Molecular Dynamics Study. Journal of Physical Chemistry B, 2012, 116, 13439-13447.	2.6	56
51	Comment on "Molecular arrangement in water: random but not quite". Journal of Physics Condensed Matter, 2012, 24, 338001.	1.8	15
52	Area detector corrections for high quality synchrotron X-ray structure factor measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, 61-70.	1.6	104
53	Barnes Reply. Physical Review Letters, 2011, 106, .	7.8	10
54	Nanostructure of Calcium Silicate Hydrates in Cements. Physical Review Letters, 2010, 104, 195502.	7.8	215

#	ARTICLE	IF	CITATIONS
55	Liquid-Liquid Phase Transition in Supercooled Yttria-Alumina. <i>Physical Review Letters</i> , 2009, 103, 225702.	7.8	58
56	Phase separation, crystallization and polyamorphism in the $Y_{2}O_{3}$ - $Al_{2}O_{3}$ system. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 205103.	1.8	40
57	Novel behaviour and structure of new glasses of the type $Ba-Al-O$ and $Ba-Al-Ti-O$ produced by aerodynamic levitation and laser heating. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L407-L414.	1.8	22
58	An oscillating coil system for contactless electrical conductivity measurements of aerodynamically levitated melts. <i>Review of Scientific Instruments</i> , 2006, 77, 123904.	1.3	10