

Richard Racz

List of Publications by Year in descending order

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papers

504
citations

759233

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53
all docs

53
docs citations

53
times ranked

333
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative analysis of an ECR Ar plasma structure by X-ray spectroscopy at high spatial resolution. Journal of Instrumentation, 2022, 17, C01009.	1.2	10
2	A Novel Approach to $\hat{\Gamma}^2$ -Decay: PANDORA, a New Experimental Setup for Future In-Plasma Measurements. Universe, 2022, 8, 80.	2.5	19
3	Experimental study of single- vs two-close-frequency heating impact on confinement and loss dynamics in ECR ion source plasmas by means of x-ray spectroscopy and imaging. Plasma Physics and Controlled Fusion, 2022, 64, 035020.	2.1	5
4	Innovative Analytical Method for X-ray Imaging and Space-Resolved Spectroscopy of ECR Plasmas. Condensed Matter, 2022, 7, 5.	1.8	11
5	X-ray diagnostics of ECR ion sources – Techniques, results, and challenges. Review of Scientific Instruments, 2022, 93, 021102.	1.3	3
6	The Atomki Accelerator Centre. European Physical Journal Plus, 2021, 136, 1.	2.6	19
7	Innovative experimental setup for X-ray imaging to study energetic magnetized plasmas. Journal of Instrumentation, 2021, 16, P03003.	1.2	12
8	Transmission of ${}^{-}\text{keV Ne}^{\{7+\}}$ ion through nanocapillaries probing the discharge process. European Physical Journal D, 2021, 75, 1.	1.3	1
9	A novel numerical tool to study electron energy distribution functions of spatially anisotropic and non-homogeneous ECR plasmas. Physics of Plasmas, 2021, 28, 102509.	1.9	11
10	Probing Electron Properties in ECR Plasmas Using X-ray Bremsstrahlung and Fluorescence Emission. Condensed Matter, 2021, 6, 41.	1.8	1
11	Low energy fragments from $\text{O}^{2+} + \text{H}^{2+}$ collisions following single and double electron removal from the target. Journal of Physics: Conference Series, 2020, 1412, 162012.	0.4	0
12	Optimized Size and Distribution of Silver Nanoparticles on the Surface of Titanium Implant Regarding Cell Viability. Applied Sciences (Switzerland), 2020, 10, 7063.	2.5	9
13	Impact of two-close-frequency heating on ECR ion source plasma radio emission and stability. Plasma Sources Science and Technology, 2019, 28, 085021.	3.1	31
14	<p></p>Investigation of silver nanoparticles on titanium surface created by ion implantation technology</p>. International Journal of Nanomedicine, 2019, Volume 14, 4709-4721.	6.7	50
15	Multidiagnostics setups for magnetoplasmas devoted to astrophysics and nuclear astrophysics research in compact traps. Journal of Instrumentation, 2019, 14, C10008-C10008.	1.2	20
16	Implantation of multiply charged silicon ions into bioinert zirconia. Vacuum, 2019, 164, 15-17.	3.5	1
17	On the formation mechanism of modified fullerenes in the two-chamber configuration of the bio-nano ECRIS. AIP Conference Proceedings, 2018, , .	0.4	0
18	First results on radial and azimuthal dependence of plasma parameters in a hexapole-trapped ECR discharge. AIP Conference Proceedings, 2018, , .	0.4	1

#	ARTICLE	IF	CITATIONS
19	Multi-diagnostic setup to investigate the two-close-frequency phenomena. Journal of Instrumentation, 2018, 13, C11016-C11016.	1.2	15
20	Effect of the two-close-frequency heating to the extracted ion beam and to the X-ray flux emitted by the ECR plasma. Journal of Instrumentation, 2018, 13, C12012-C12012.	1.2	12
21	Electron cyclotron resonance ion source plasma characterization by energy dispersive x-ray imaging. Plasma Sources Science and Technology, 2017, 26, 075011.	3.1	27
22	Role of conductivity for the production of charge patches by ions guided in capillaries. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 56-60.	1.4	1
23	Ion beam emittance from an ECRIS. Review of Scientific Instruments, 2016, 87, 02A724.	1.3	3
24	Recent developments of ion sources for life-science studies at the Heavy Ion Medical Accelerator in Chiba (invited). Review of Scientific Instruments, 2016, 87, 02C107.	1.3	9
25	X-ray pinhole camera setups used in the Atomki ECR Laboratory for plasma diagnostics. Review of Scientific Instruments, 2016, 87, 02A741.	1.3	12
26	Electron cyclotron resonance ion source plasma characterization by X-ray spectroscopy and X-ray imaging. Review of Scientific Instruments, 2016, 87, 02A510.	1.3	31
27	Long-term stable transmission of 3-keV Ne ⁷⁺ ions guided through nanocapillaries in polymers. Nuclear Instruments & Methods in Physics Research B, 2016, 387, 96-102.	1.4	2
28	Two-chamber configuration of Bio-Nano electron cyclotron resonance ion source for fullerene modification. Review of Scientific Instruments, 2016, 87, 02A720.	1.3	1
29	Preliminary studies of creation of gold nanoparticles on titanium surface towards biomedical applications. Vacuum, 2016, 126, 55-58.	3.5	12
30	Blocking effect on transmission of Ne ⁷⁺ ions through nanocapillaries. Journal of Physics: Conference Series, 2015, 635, 032028.	0.4	0
31	Conductivity mechanism probed by ion transmission through nanocapillaries during the discharging process. Journal of Physics: Conference Series, 2015, 635, 032027.	0.4	0
32	Guiding of Ar ⁷⁺ ions through a glass microcapillary array. Nuclear Instruments & Methods in Physics Research B, 2015, 354, 71-74.	1.4	1
33	Experiments with biased side electrodes in electron cyclotron resonance ion sources. Review of Scientific Instruments, 2014, 85, 02A921.	1.3	6
34	Synthesis of endohedral iron-fullerenes by ion implantation. Review of Scientific Instruments, 2014, 85, 02A945.	1.3	10
35	Status of the Bio-Nano electron cyclotron resonance ion source at Toyo University. Review of Scientific Instruments, 2014, 85, 02C317.	1.3	8
36	Fast camera studies at an electron cyclotron resonance table plasma generator. Review of Scientific Instruments, 2014, 85, 02A507.	1.3	0

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37	Two-frequency heating technique at the 18 GHz electron cyclotron resonance ion source of the National Institute of Radiological Sciences. Review of Scientific Instruments, 2014, 85, 02A931.	1.3	11
38	Fullerene-rare gas mixed plasmas in an electron cyclotron resonance ion source. Review of Scientific Instruments, 2014, 85, 02A936.	1.3	4
39	Guiding of Ar ⁷⁺ ions through a glass microcapillary array. Journal of Physics: Conference Series, 2014, 488, 132011.	0.4	0
40	Synthesis of Fe@C ₆₀ complex by ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2013, 310, 18-22.	1.4	11
41	Study on the beam transport from the Bio-Nano ECRIS. Review of Scientific Instruments, 2012, 83, 02B713.	1.3	1
42	Effect of pulse-modulated microwaves on fullerene ion production with electron cyclotron resonance ion source. Review of Scientific Instruments, 2012, 83, 02A303.	1.3	2
43	Molecular and negative ion production by a standard electron cyclotron resonance ion source. Review of Scientific Instruments, 2012, 83, 02A313.	1.3	4
44	Status and special features of the Atomki ECR ion source. Review of Scientific Instruments, 2012, 83, 02A341.	1.3	24
45	Ion guiding and formation of neutrals in PET polymer nanocapillaries. Journal of Physics: Conference Series, 2012, 388, 132007.	0.4	1
46	Guided transmission of 3keV Ar ⁷⁺ ions through dense polycarbonate nanocapillary arrays: Blocking effect and time dependence of the transmitted neutrals. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 177-181.	1.4	12
47	Synthesis of Endohedral Fullerene Using ECR Ion Source. AIP Conference Proceedings, 2011, . .	0.4	6
48	Visible Light Emission of Electron Cyclotron Resonance Plasmas. IEEE Transactions on Plasma Science, 2011, 39, 2462-2463.	1.3	0
49	Imaging of ECR Plasma by Computer Simulation. IEEE Transactions on Plasma Science, 2011, 39, 2474-2475.	1.3	7
50	ECR plasma photographs as a plasma diagnostic. Plasma Sources Science and Technology, 2011, 20, 025002.	3.1	21
51	Pinhole X-Ray Camera Photographs of an ECR Ion Source Plasma. IEEE Transactions on Plasma Science, 2011, 39, 2494-2495.	1.3	2
52	Electron cyclotron resonance plasma photos. Review of Scientific Instruments, 2010, 81, 02B708.	1.3	3
53	Ion guiding accompanied by formation of neutrals in polyethylene terephthalate polymer nanocapillaries: Further insight into a self-organizing process. Physical Review A, 2010, 82, .	2.5	41