Joe Khachan

List of Publications by Year
in descending order

41 papers	453 citations	687363 13 h-index	794594 19 g-index
41 all docs	41 docs citations	41 times ranked	240 citing authors

#	Article	IF	Citations
1	Electric potential in a magnetically confined virtual cathode fusion device. Physics of Plasmas, 2021, 28, .	1.9	1
2	An inertial electrostatic confinement fusion system based on graphite. Physics of Plasmas, 2021, 28, .	1.9	5
3	Measurements and modeling of ion divergence from a gridded inertial electrostatic confinement device using laser induced fluorescence. Physics of Plasmas, 2020, 27, .	1.9	4
4	The INSPIRE-2 CubeSat for the QB50 Project. Space Science Reviews, 2020, 216, 1.	8.1	2
5	Electron density and velocity functions in a low beta Polywell. Physics of Plasmas, 2019, 26, .	1.9	3
6	Measurements of diverging ion motion in an inertial electrostatic confinement device using Doppler spectroscopy. Physics of Plasmas, 2019, 26, .	1.9	3
7	Evidence for surface fusion in inertial electrostatic confinement devices. Physics of Plasmas, 2018, 25, .	1.9	16
8	The Use of an Electron Microchannel as a Self-Extracting and Focusing Plasma Cathode Electron Gun. Plasma Science and Technology, 2016, 18, 138-142.	1.5	1
9	Fusion energy in an inertial electrostatic confinement device using a magnetically shielded grid. Physics of Plasmas, 2015, 22, .	1.9	12
10	Nonlinear saturation of the ion-electron Buneman instability in a spherical positively pulsed gridded inertial electrostatic confinement device. Physics of Plasmas, 2015, 22, .	1.9	7
11	The dependence of potential well formation on the magnetic field strength and electron injection current in a polywell device. Physics of Plasmas, 2014, 21, 092502.	1.9	6
12	Spherical ion oscillations in a positive polarity gridded inertial-electrostatic confinement device. Physics of Plasmas, 2013, 20, 072705.	1.9	5
13	A biased probe analysis of potential well formation in an electron only, low beta Polywell magnetic field. Physics of Plasmas, 2013, 20, .	1.9	7
14	A 2-D PIC/MC/Vlasov method for electrostatic fusion discharges. Computer Physics Communications, 2012, 183, 971-979.	7.5	1
15	Low beta confinement in a Polywell modelled with conventional point cusp theories. Physics of Plasmas, 2011, 18, .	1.9	18
16	Spherical plasma oscillations in a reversed-polarity inertial-electrostatic confinement device. Physics of Plasmas, 2010, 17, 112117.	1.9	6
17	The dependence of the virtual cathode in a Polywellâ„¢ on the coil current and background gas pressure. Physics of Plasmas, 2010, 17, 052510.	1.9	13
18	The measurement of chalcopyrite content in rocks and slurries using magnetic resonance. Minerals Engineering, 2009, 22, 821-825.	4.3	7

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19	Application of Doppler spectroscopy in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>to the prediction of experimental<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">D</mml:mi><mml:msup><mml:mrow><mml:mo>(</mml:mo><mml:mi>d</mml:mi><mml:mo>,</mml:mo><mml:mn	2.1	12
20	Absolute densities of energetic hydrogen ion species in an abnormal hollow cathode discharge. Physical Review E, 2008, 77, 066405.	2.1	13
21	Growth of carbon nanocone arrays on a metal catalyst: The effect of carbon flux ionization. Physics of Plasmas, 2008, 15, .	1.9	16
22	Application of low-cost Gallium Arsenide light-emitting-diodes as kerma dosemeter and fluence monitor for high-energy neutrons. Radiation Protection Dosimetry, 2007, 126, 256-260.	0.8	26
23	A simple electric thruster based on ion charge exchange. Journal Physics D: Applied Physics, 2007, 40, 2491-2494.	2.8	20
24	Spectroscopic determination of electron energies in a discharge of atomic H produced by a monoenergetic electron beam. Journal Physics D: Applied Physics, 2007, 40, 5170-5176.	2.8	5
25	Dust diagnostics on an inertial electrostatic confinement discharge. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 363, 297-301.	2.1	15
26	Quantitative measurement of copper mineralogy using magnetic resonance. Minerals Engineering, 2007, 20, 1344-1350.	4.3	5
27	Relative densities of hydrogen ion species in a hollow cathode glow discharge. European Physical Journal D, 2006, 39, 35-39.	1.3	11
28	A Markov chain approach to modelling charge exchange processes of an ion beam in monotonically increasing or decreasing potentials. Journal of Physics A, 2006, 39, 11119-11128.	1.6	7
29	Diverging ion motion in an inertial electrostatic confinement discharge. Physics of Plasmas, 2006, 13, 012703.	1.9	29
30	Spatial distribution of ion energies in an inertial electrostatic confinement device. Physics of Plasmas, 2003, 10, 596-599.	1.9	28
31	Atomic resolution structure of growth and etching patterns at the surface of microwave plasma chemical vapor deposited diamond films. Applied Physics Letters, 2001, 78, 1520-1522.	3.3	5
32	Measurements of ion energy distributions by Doppler shift spectroscopy in an inertial-electrostatic confinement device. Physics of Plasmas, 2001, 8, 1299.	1.9	36
33	Quenching of excited Ar I and H by H2in a gas discharge. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 2869-2880.	1.5	15
34	The effect of frequency and duty cycle of a pulsed microwave plasma on the chemical vapor deposition of diamond. Journal of Applied Physics, 1999, 86, 6576-6579.	2.5	20
35	Downstream plasma characteristics from a single loop antenna in a helicon processing reactor. Plasma Sources Science and Technology, 1999, 8, 432-439.	3.1	20
36	Production and loss of H atoms in a microwave discharge in. Journal Physics D: Applied Physics, 1998, 31, 2004-2012.	2.8	13

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37	Spatial correlation of electron field emission sites with non-diamond carbon content in CVD diamond. Electronics Letters, 1995, 31, 1018-1019.	1.0	18
38	Power saturation and the effect of argon on the electron spin resonance of diamond deposited from a microwave plasma. Applied Physics Letters, 1994, 65, 3320-3322.	3.3	7
39	A simple microwave plasma source for diamond deposition. Review of Scientific Instruments, 1993, 64, 2971-2973.	1.3	12
40	Simple microwave-produced plasma source for diamond thin film synthesis. , 1993, , .		0
41	Computerâ€assisted magnetic core loss measurements on single strips of metallic glass. Review of Scientific Instruments, 1992, 63, 3222-3223.	1.3	3