

Joe Khachan

List of Publications by Year in descending order

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41
papers

453
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687363

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794594

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41
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docs citations

41
times ranked

240
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Measurements of ion energy distributions by Doppler shift spectroscopy in an inertial-electrostatic confinement device. Physics of Plasmas, 2001, 8, 1299. | 1.9 | 36 |
| 2 | Diverging ion motion in an inertial electrostatic confinement discharge. Physics of Plasmas, 2006, 13, 012703. | 1.9 | 29 |
| 3 | Spatial distribution of ion energies in an inertial electrostatic confinement device. Physics of Plasmas, 2003, 10, 596-599. | 1.9 | 28 |
| 4 | Application of low-cost Gallium Arsenide light-emitting-diodes as kerma dosimeter and fluence monitor for high-energy neutrons. Radiation Protection Dosimetry, 2007, 126, 256-260. | 0.8 | 26 |
| 5 | 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 |
| 6 | 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 |
| 7 | A simple electric thruster based on ion charge exchange. Journal Physics D: Applied Physics, 2007, 40, 2491-2494. | 2.8 | 20 |
| 8 | Spatial correlation of electron field emission sites with non-diamond carbon content in CVD diamond. Electronics Letters, 1995, 31, 1018-1019. | 1.0 | 18 |
| 9 | Low beta confinement in a Polywell modelled with conventional point cusp theories. Physics of Plasmas, 2011, 18, . | 1.9 | 18 |
| 10 | Growth of carbon nanocone arrays on a metal catalyst: The effect of carbon flux ionization. Physics of Plasmas, 2008, 15, . | 1.9 | 16 |
| 11 | Evidence for surface fusion in inertial electrostatic confinement devices. Physics of Plasmas, 2018, 25, . | 1.9 | 16 |
| 12 | Quenching of excited Ar I and H by H ₂ in a gas discharge. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 2869-2880. | 1.5 | 15 |
| 13 | 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 |
| 14 | Production and loss of H atoms in a microwave discharge in. Journal Physics D: Applied Physics, 1998, 31, 2004-2012. | 2.8 | 13 |
| 15 | Absolute densities of energetic hydrogen ion species in an abnormal hollow cathode discharge. Physical Review E, 2008, 77, 066405. | 2.1 | 13 |
| 16 | The dependence of the virtual cathode in a Polywell, on the coil current and background gas pressure. Physics of Plasmas, 2010, 17, 052510. | 1.9 | 13 |
| 17 | A simple microwave plasma source for diamond deposition. Review of Scientific Instruments, 1993, 64, 2971-2973. | 1.3 | 12 |
| 18 | Application of Doppler spectroscopy in H^2 to the prediction of experimental D | 2.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Fusion energy in an inertial electrostatic confinement device using a magnetically shielded grid. <i>Physics of Plasmas</i> , 2015, 22, . | 1.9 | 12 |
| 20 | Relative densities of hydrogen ion species in a hollow cathode glow discharge. <i>European Physical Journal D</i> , 2006, 39, 35-39. | 1.3 | 11 |
| 21 | Power saturation and the effect of argon on the electron spin resonance of diamond deposited from a microwave plasma. <i>Applied Physics Letters</i> , 1994, 65, 3320-3322. | 3.3 | 7 |
| 22 | A Markov chain approach to modelling charge exchange processes of an ion beam in monotonically increasing or decreasing potentials. <i>Journal of Physics A</i> , 2006, 39, 11119-11128. | 1.6 | 7 |
| 23 | The measurement of chalcopyrite content in rocks and slurries using magnetic resonance. <i>Minerals Engineering</i> , 2009, 22, 821-825. | 4.3 | 7 |
| 24 | A biased probe analysis of potential well formation in an electron only, low beta Polywell magnetic field. <i>Physics of Plasmas</i> , 2013, 20, . | 1.9 | 7 |
| 25 | Nonlinear saturation of the ion-electron Buneman instability in a spherical positively pulsed gridded inertial electrostatic confinement device. <i>Physics of Plasmas</i> , 2015, 22, . | 1.9 | 7 |
| 26 | Spherical plasma oscillations in a reversed-polarity inertial-electrostatic confinement device. <i>Physics of Plasmas</i> , 2010, 17, 112117. | 1.9 | 6 |
| 27 | The dependence of potential well formation on the magnetic field strength and electron injection current in a polywell device. <i>Physics of Plasmas</i> , 2014, 21, 092502. | 1.9 | 6 |
| 28 | Atomic resolution structure of growth and etching patterns at the surface of microwave plasma chemical vapor deposited diamond films. <i>Applied Physics Letters</i> , 2001, 78, 1520-1522. | 3.3 | 5 |
| 29 | Spectroscopic determination of electron energies in a discharge of atomic H produced by a monoenergetic electron beam. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5170-5176. | 2.8 | 5 |
| 30 | Quantitative measurement of copper mineralogy using magnetic resonance. <i>Minerals Engineering</i> , 2007, 20, 1344-1350. | 4.3 | 5 |
| 31 | Spherical ion oscillations in a positive polarity gridded inertial-electrostatic confinement device. <i>Physics of Plasmas</i> , 2013, 20, 072705. | 1.9 | 5 |
| 32 | An inertial electrostatic confinement fusion system based on graphite. <i>Physics of Plasmas</i> , 2021, 28, . | 1.9 | 5 |
| 33 | Measurements and modeling of ion divergence from a gridded inertial electrostatic confinement device using laser induced fluorescence. <i>Physics of Plasmas</i> , 2020, 27, . | 1.9 | 4 |
| 34 | Computer-assisted magnetic core loss measurements on single strips of metallic glass. <i>Review of Scientific Instruments</i> , 1992, 63, 3222-3223. | 1.3 | 3 |
| 35 | Electron density and velocity functions in a low beta Polywell. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 3 |
| 36 | Measurements of diverging ion motion in an inertial electrostatic confinement device using Doppler spectroscopy. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 3 |

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|----|--|-----|-----------|
| 37 | The INSPIRE-2 CubeSat for the QB50 Project. Space Science Reviews, 2020, 216, 1. | 8.1 | 2 |
| 38 | A 2-D PIC/MC/Masov method for electrostatic fusion discharges. Computer Physics Communications, 2012, 183, 971-979. | 7.5 | 1 |
| 39 | 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 |
| 40 | Electric potential in a magnetically confined virtual cathode fusion device. Physics of Plasmas, 2021, 28, . | 1.9 | 1 |
| 41 | Simple microwave-produced plasma source for diamond thin film synthesis. , 1993, , . | | 0 |