

# Andre Anders

## List of Publications by Year in descending order

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Version: 2024-02-01

416  
papers

16,305  
citations

16451

64  
h-index

24258

110  
g-index

427  
all docs

427  
docs citations

427  
times ranked

7777  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Influence of the magnetic field on the discharge physics of a high power impulse magnetron sputtering discharge. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 015202.                             | 2.8 | 20        |
| 2  | On the population density of the argon excited levels in a high power impulse magnetron sputtering discharge. <i>Physics of Plasmas</i> , 2022, 29, 023506.  | 1.9 | 1         |
| 3  | High-quality transparent conductive indium oxide film deposition by reactive pulsed magnetron sputtering: Determining the limits of substrate heating. <i>Applied Surface Science</i> , 2022, 585, 152604. | 6.1 | 6         |
| 4  | 10.1063/5.0088430.1., 2022, , .  |     | 0         |
| 5  | Building on excellence and reputation, a more inclusive <i>Journal of Applied Physics</i> evolves. <i>Journal of Applied Physics</i> , 2022, 131, .  | 2.5 | 0         |
| 6  | Dynamics and 2D temperature distribution of plasma obtained by femtosecond laser-induced breakdown. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 125204.  | 2.8 | 4         |
| 7  | Properties of gallium oxide thin films grown by ion beam sputter deposition at room temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .               | 2.1 | 2         |
| 8  | Foundations of physical vapor deposition with plasma assistance. <i>Plasma Sources Science and Technology</i> , 2022, 31, 083001.  | 3.1 | 27        |
| 9  | Meeting today's needs in applied physics publishing. <i>Journal of Applied Physics</i> , 2021, 129, .  | 2.5 | 1         |
| 10 | On the electron energy distribution function in the high power impulse magnetron sputtering discharge. <i>Plasma Sources Science and Technology</i> , 2021, 30, 045011.                                    | 3.1 | 15        |
| 11 | Role of Reaction Intermediate Diffusion on the Performance of Platinum Electrodes in Solid Acid Fuel Cells. <i>Catalysts</i> , 2021, 11, 1065.   | 3.5 | 3         |
| 12 | Unravelling the ion-energy-dependent structure evolution and its implications for the elastic properties of (V,Al)N thin films. <i>Acta Materialia</i> , 2021, 214, 117003.                                | 7.9 | 20        |
| 13 | Cathode spot behavior in nitrogen and oxygen gaseous atmospheres and concomitant cathode surface modifications. <i>Surface and Coatings Technology</i> , 2021, 421, 127441.                                | 4.8 | 8         |
| 14 | High-resolution observation of cathode spots in a magnetically steered vacuum arc plasma source. <i>Plasma Sources Science and Technology</i> , 2021, 30, 095005.  | 3.1 | 10        |
| 15 | Properties of secondary ions in ion beam sputtering of Ga <sub>2</sub> O <sub>3</sub> . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .                        | 2.1 | 4         |
| 16 | On how to measure the probabilities of target atom ionization and target ion back-attraction in high-power impulse magnetron sputtering. <i>Journal of Applied Physics</i> , 2021, 129, .                  | 2.5 | 17        |
| 17 | Streak image observations of vacuum arc spots in a magnetically steered arc plasma source. , 2021, , .   |     | 0         |
| 18 | High-resolution observation of cathodic arc spots in a magnetically steered arc plasma source in low pressure argon, nitrogen, and oxygen atmospheres. <i>Journal of Applied Physics</i> , 2021, 130, .    | 2.5 | 5         |

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|----|---|-----|-----------|
| 19 | Electron transport in high power impulse magnetron sputtering at low and high working gas pressure. <i>Journal of Applied Physics</i> , 2021, 130, .  | 2.5 | 4         |
| 20 | Physics of high power impulse magnetron sputtering discharges. , 2020, , 265-332.   |     | 8         |
| 21 | Erosion and cathodic arc plasma of Nb-Al cathodes: composite versus intermetallic. <i>Plasma Sources Science and Technology</i> , 2020, 29, 025022.   | 3.1 | 10        |
| 22 | Vanadium oxide coatings to self-regulate current sharing in high-temperature superconducting cables and magnets. <i>Journal of Applied Physics</i> , 2020, 128, .   | 2.5 | 8         |
| 23 | Insights into surface modification and erosion of multi-element arc cathodes using a novel multilayer cathode design. <i>Journal of Applied Physics</i> , 2020, 127, .  | 2.5 | 13        |
| 24 | Optimizing the deposition rate and ionized flux fraction by tuning the pulse length in high power impulse magnetron sputtering. <i>Plasma Sources Science and Technology</i> , 2020, 29, 05LT01.                              | 3.1 | 46        |
| 25 | Serving a scientific community in an evolving research landscape. <i>Journal of Applied Physics</i> , 2020, 127, .  | 2.5 | 1         |
| 26 | Properties of secondary particles for ion beam sputtering of silicon using low-energy oxygen ions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 033011.                          | 2.1 | 6         |
| 27 | Ion beam sputtering of silicon: Energy distributions of sputtered and scattered ions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .   | 2.1 | 15        |
| 28 | Micro-propulsion based on vacuum arcs. <i>Journal of Applied Physics</i> , 2019, 125, .   | 2.5 | 38        |
| 29 | Influence of Ar gas pressure on ion energy and charge state distributions in pulsed cathodic arc plasmas from Nb-Al cathodes studied with high time resolution. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 055201. | 2.8 | 5         |
| 30 | Plasma studies of a linear magnetron operating in the range from DC to HiPIMS. <i>Journal of Applied Physics</i> , 2018, 123, 043302.   | 2.5 | 21        |
| 31 | Reduced atomic shadowing in HiPIMS: Role of the thermalized metal ions. <i>Applied Surface Science</i> , 2018, 433, 934-944.  | 6.1 | 27        |
| 32 | Time and Energy-resolved Average Ion Charge States in Pulsed Cathodic Vacuum Arc Plasmas of Nb-Al Cathodes as a Function of Ar Pressure. , 2018, , .  |     | 0         |
| 33 | Time-resolved ion energy and charge state distributions in pulsed cathodic arc plasmas of Nb-Al cathodes in high vacuum. <i>Plasma Sources Science and Technology</i> , 2018, 27, 055007.                                     | 3.1 | 10        |
| 34 | Structural and Optical Studies of InGaN/GaN Superlattices Implanted with Eu Ions. <i>MRS Advances</i> , 2017, 2, 179-187.   | 0.9 | 0         |
| 35 | Plasma potential of a moving ionization zone in DC magnetron sputtering. <i>Journal of Applied Physics</i> , 2017, 121, .   | 2.5 | 69        |
| 36 | Sputtering of pure boron using a magnetron without a radio-frequency supply. <i>Review of Scientific Instruments</i> , 2017, 88, 043506.  | 1.3 | 16        |

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|----|---|------|-----------|
| 37 | Tutorial: Reactive high power impulse magnetron sputtering (R-HiPIMS). Journal of Applied Physics, 2017, 121, .   | 2.5  | 275       |
| 38 | Direct observation of spoke evolution in magnetron sputtering. Applied Physics Letters, 2017, 111, .  | 3.3  | 24        |
| 39 | Phase tailoring of tantalum thin films deposited in deep oscillation magnetron sputtering mode. Surface and Coatings Technology, 2017, 314, 97-104.   | 4.8  | 27        |
| 40 | All-solid-state tunable Bragg filters based on a phase transition material. , 2017, , .   |      | 0         |
| 41 | Tunable Bragg filters with a phase transition material defect layer. Optics Express, 2016, 24, 20365.   | 3.4  | 19        |
| 42 | Evidence for breathing modes in direct current, pulsed, and high power impulse magnetron sputtering plasmas. Applied Physics Letters, 2016, 108, .  | 3.3  | 21        |
| 43 | Micropropulsion Based on Vacuum Arc Physics and Technology: A Review. , 2016, , .   |      | 2         |
| 44 | Editorial: Celebrating the 85th Anniversary of Journal of Applied Physics. Journal of Applied Physics, 2016, 119, 010401.   | 2.5  | 0         |
| 45 | Influence of ionisation zone motion in high power impulse magnetron sputtering on angular ion flux and NbO <sub>x</sub> film growth. Plasma Sources Science and Technology, 2016, 25, 015022.               | 3.1  | 28        |
| 46 | Temporal evolution of ion energy distribution functions and ion charge states of Cr and Cr-Al pulsed arc plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 061301. | 2.1  | 6         |
| 47 | Room Temperature Oxide Deposition Approach to Fully Transparent, All-Oxide Thin-Film Transistors. Advanced Materials, 2015, 27, 6090-6095.  | 21.0 | 57        |
| 48 | Editorial: Raising the bar—Providing a home. Journal of Applied Physics, 2015, 117, 010401.   | 2.5  | 1         |
| 49 | Element- and charge-state-resolved ion energies in the cathodic arc plasma from composite AlCr cathodes in argon, nitrogen and oxygen atmospheres. Surface and Coatings Technology, 2015, 272, 309-321.     | 4.8  | 18        |
| 50 | Adding high time resolution to charge-state-specific ion energy measurements for pulsed copper vacuum arc plasmas. Plasma Sources Science and Technology, 2015, 24, 045010.                                 | 3.1  | 15        |
| 51 | Plasma of Vacuum Discharges: The Pursuit of Elevating Metal Ion Charge States, Including a Recent Record of Producing Bi <sup>13+</sup> . IEEE Transactions on Plasma Science, 2015, 43, 2310-2317.         | 1.3  | 16        |
| 52 | Ion energies in high power impulse magnetron sputtering with and without localized ionization zones. Applied Physics Letters, 2015, 106, .  | 3.3  | 25        |
| 53 | Localized heating of electrons in ionization zones: Going beyond the Penning-Thornton paradigm in magnetron sputtering. Applied Physics Letters, 2014, 105, 244104.   | 3.3  | 51        |
| 54 | Propagation direction reversal of ionization zones in the transition between high and low current magnetron sputtering. Applied Physics Letters, 2014, 105, .   | 3.3  | 36        |

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|----|--|-----|-----------|
| 55 | Controlling ion fluxes during reactive sputter-deposition of SnO <sub>2</sub> :F. Journal of Applied Physics, 2014, 116, .   | 2.5 | 18        |
| 56 | Editorial: Journal of Applied Physics in a changing world of scientific publication. Journal of Applied Physics, 2014, 116, 010401.  | 2.5 | 0         |
| 57 | Fermi level stabilization and band edge energies in Cd <sub>x</sub> Zn <sub>1-x</sub> O alloys. Journal of Applied Physics, 2014, 115, .   | 2.5 | 37        |
| 58 | Dyke Award - For distinguished work on discharges and electrical insulation in vacuum. , 2014, , .   |     | 0         |
| 59 | Ion energies in vacuum arcs: A critical review of data and theories leading to traveling potential humps. , 2014, , .  |     | 4         |
| 60 | 2-D mathematical modeling for a large electrochromic window – Part I. Solar Energy Materials and Solar Cells, 2014, 120, 1-8.  | 6.2 | 21        |
| 61 | Smoothing of Discharge Inhomogeneities at High Currents in Gasless High Power Impulse Magnetron Sputtering. IEEE Transactions on Plasma Science, 2014, 42, 2856-2857.  | 1.3 | 10        |
| 62 | Drifting Ionization Zone in DC Magnetron Sputtering Discharges at Very Low Currents. IEEE Transactions on Plasma Science, 2014, 42, 2578-2579.   | 1.3 | 19        |
| 63 | Unusual Cathode Erosion Patterns Observed for Steered Arc Sources. IEEE Transactions on Plasma Science, 2014, 42, 2602-2603.   | 1.3 | 4         |
| 64 | Asymmetric particle fluxes from drifting ionization zones in sputtering magnetrons. Plasma Sources Science and Technology, 2014, 23, 025007.   | 3.1 | 49        |
| 65 | On the road to self-sputtering in high power impulse magnetron sputtering: particle balance and discharge characteristics. Plasma Sources Science and Technology, 2014, 23, 025017.  | 3.1 | 55        |
| 66 | A review comparing cathodic arcs and high power impulse magnetron sputtering (HiPIMS). Surface and Coatings Technology, 2014, 257, 308-325.  | 4.8 | 200       |
| 67 | Observation of multiple charge states and high ion energies in high-power impulse magnetron sputtering (HiPIMS) and burst HiPIMS using a LaB <sub>6</sub> target. Plasma Sources Science and Technology, 2014, 23, 035001. | 3.1 | 22        |
| 68 | Spectroscopic imaging of self-organization in high power impulse magnetron sputtering plasmas. Applied Physics Letters, 2013, 103, .   | 3.3 | 51        |
| 69 | On sheath energization and Ohmic heating in sputtering magnetrons. Plasma Sources Science and Technology, 2013, 22, 045005.  | 3.1 | 72        |
| 70 | Size and composition-controlled fabrication of thermochromic metal oxide nanocrystals. Journal Physics D: Applied Physics, 2013, 46, 362001.   | 2.8 | 18        |
| 71 | Drifting potential humps in ionization zones: The “propeller blades” of high power impulse magnetron sputtering. Applied Physics Letters, 2013, 103, .   | 3.3 | 75        |
| 72 | Transparent and conductive indium doped cadmium oxide thin films prepared by pulsed filtered cathodic arc deposition. Applied Surface Science, 2013, 265, 738-744.   | 6.1 | 55        |

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|----|---|-----|-----------|
| 73 | Structural, optical, and electrical properties of indium-doped cadmium oxide films prepared by pulsed filtered cathodic arc deposition. <i>Journal of Materials Science</i> , 2013, 48, 3789-3797.    | 3.7 | 28        |
| 74 | Dopant-induced band filling and bandgap renormalization in CdO $\epsilon$ :In films. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 195102.  | 2.8 | 35        |
| 75 | Estimating electron drift velocities in magnetron discharges. <i>Vacuum</i> , 2013, 89, 53-56.  | 3.5 | 18        |
| 76 | Crystal structure and properties of CdxZn1-xO alloys across the full composition range. <i>Applied Physics Letters</i> , 2013, 102, .   | 3.3 | 60        |
| 77 | Modeling of optical and energy performance of tungsten-oxide-based electrochromic windows including their intermediate states. <i>Solar Energy Materials and Solar Cells</i> , 2013, 108, 129-135.    | 6.2 | 32        |
| 78 | Ion Charge State Distributions of Al and Cr in Cathodic Arc Plasmas From Composite Cathodes in Vacuum, Argon, Nitrogen, and Oxygen. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 1929-1937. | 1.3 | 20        |
| 79 | Drifting localization of ionization runaway: Unraveling the nature of anomalous transport in high power impulse magnetron sputtering. <i>Journal of Applied Physics</i> , 2012, 111, 053304.          | 2.5 | 143       |
| 80 | Charge state distributions of Al and Cr cathodic arc plasmas. , 2012, , .   |     | 1         |
| 81 | Improved structural and electrical properties of thin ZnO:Al films by dc filtered cathodic arc deposition. <i>Journal of Materials Research</i> , 2012, 27, 857-862.                                  | 2.6 | 4         |
| 82 | Plasma flares in high power impulse magnetron sputtering. <i>Applied Physics Letters</i> , 2012, 101, .   | 3.3 | 45        |
| 83 | Thermal decomposition and fractal properties of sputter-deposited platinum oxide thin films. <i>Journal of Materials Research</i> , 2012, 27, 829-836.  | 2.6 | 13        |
| 84 | The "recycling trap": a generalized explanation of discharge runaway in high-power impulse magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 012003.                        | 2.8 | 85        |
| 85 | Determining the nonparabolicity factor of the CdO conduction band using indium doping and the Drude theory. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 425302.                             | 2.8 | 42        |
| 86 | The evolution of ion charge states in cathodic vacuum arc plasmas: a review. <i>Plasma Sources Science and Technology</i> , 2012, 21, 035014.   | 3.1 | 62        |
| 87 | Phase transitions in vacuum arcs in the context of liquid metal arc sources. , 2012, , .  |     | 3         |
| 88 | Self-organization and self-limitation in high power impulse magnetron sputtering. <i>Applied Physics Letters</i> , 2012, 100, .   | 3.3 | 73        |
| 89 | Plasma potential mapping of high power impulse magnetron sputtering discharges. <i>Journal of Applied Physics</i> , 2012, 111, .  | 2.5 | 75        |
| 90 | Modelling of target effects in reactive HIPIMS. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 39, 012008.   | 0.6 | 7         |

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|-----|---|-----|-----------|
| 91  | Boron-rich plasma by high power impulse magnetron sputtering of lanthanum hexaboride. Journal of Applied Physics, 2012, 112, .  | 2.5 | 8         |
| 92  | Efficient, Low Cost Synthesis of Sodium Platinum Bronze $\text{NaPt}_3\text{O}_4$ . Chemistry of Materials, 2012, 24, 2429-2432.  | 6.7 | 6         |
| 93  | Gas rarefaction and the time evolution of long high-power impulse magnetron sputtering pulses. Plasma Sources Science and Technology, 2012, 21, 045004.   | 3.1 | 82        |
| 94  | Evaluation of species-specific score cutoff values of routinely isolated clinically relevant bacteria using a direct smear preparation for matrix-assisted laser desorption/ionization time-of-flight mass spectrometry-based bacterial identification. European Journal of Clinical Microbiology and Infectious Diseases, 2012, 31, 1109-1119. | 2.9 | 33        |
| 95  | Analysis of Bulk and Thin Film Model Samples Intended for Investigating the Strain Sensitivity of Niobium-Tin. IEEE Transactions on Applied Superconductivity, 2011, 21, 2550-2553.   | 1.7 | 6         |
| 96  | Achieving high mobility $\text{ZnO}:\text{Al}$ at very high growth rates by dc filtered cathodic arc deposition. Journal Physics D: Applied Physics, 2011, 44, 232003.  | 2.8 | 34        |
| 97  | A synchronized emissive probe for time-resolved plasma potential measurements of pulsed discharges. Review of Scientific Instruments, 2011, 82, 093505.   | 1.3 | 10        |
| 98  | Dynamically Modulating the Surface Plasmon Resonance of Doped Semiconductor Nanocrystals. Nano Letters, 2011, 11, 4415-4420.  | 9.1 | 491       |
| 99  | Measurements of the Ion Species of Cathodic Arc Plasma in an Axial Magnetic Field. IEEE Transactions on Plasma Science, 2011, 39, 1272-1276.  | 1.3 | 7         |
| 100 | Dense Metal Plasma in a Solenoid for Ion Beam Neutralization. IEEE Transactions on Plasma Science, 2011, 39, 1386-1393.   | 1.3 | 11        |
| 101 | Chemistry, phase formation, and catalytic activity of thin palladium-containing oxide films synthesized by plasma-assisted physical vapor deposition. Surface and Coatings Technology, 2011, 205, S171-S177.  | 4.8 | 33        |
| 102 | Discharge physics of high power impulse magnetron sputtering. Surface and Coatings Technology, 2011, 205, S1-S9.  | 4.8 | 225       |
| 103 | A Plasma Lens for Magnetron Sputtering. IEEE Transactions on Plasma Science, 2011, 39, 2528-2529.   | 1.3 | 18        |
| 104 | Identification of Ternary Phases in $\text{TiBC}/\text{Al}$ Nanocomposite Thin Films: Influence on the Electrical and Optical Properties. Plasma Processes and Polymers, 2011, 8, 579-588.  | 3.0 | 10        |
| 105 | Optical properties of ferromagnetic ytterbium-doped III-nitride epilayers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2185-2187.  | 0.8 | 4         |
| 106 | Preparation of high transmittance $\text{ZnO}:\text{Al}$ film by pulsed filtered cathodic arc technology and rapid thermal annealing. Applied Surface Science, 2011, 257, 7019-7022.  | 6.1 | 8         |
| 107 | Hollow Plasma in a Solenoid. IEEE Transactions on Plasma Science, 2011, 39, 2888-2889.  | 1.3 | 1         |
| 108 | High Rate Deposition of High Quality $\text{ZnO}:\text{Al}$ by Filtered Cathodic Arc. Materials Research Society Symposia Proceedings, 2011, 1315, 1.   | 0.1 | 1         |

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|-----|--|-----|-----------|
| 109 | Epitaxy of Ultrathin NiSi <sub>2</sub> Films with Predetermined Thickness. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, H268.  | 2.2 | 21        |
| 110 | Optical studies of strained InGaN/GaN quantum structures implanted with europium for red light emitting diodes. , 2011, , .  |     | 0         |
| 111 | High quality ZnO:Al transparent conducting oxide films synthesized by pulsed filtered cathodic arc deposition. <i>Thin Solid Films</i> , 2010, 518, 3313-3319.   | 1.8 | 48        |
| 112 | A structure zone diagram including plasma-based deposition and ion etching. <i>Thin Solid Films</i> , 2010, 518, 4087-4090.  | 1.8 | 641       |
| 113 | High power impulse magnetron sputtering and related discharges: Scalable plasma sources for plasma-based ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2010, 204, 2864-2868. | 4.8 | 51        |
| 114 | Optical and magnetic properties of GaN epilayers implanted with ytterbium. <i>Journal of Rare Earths</i> , 2010, 28, 931-935.  | 4.8 | 10        |
| 115 | A self-sputtering ion source: A new approach to quiescent metal ion beams. <i>Review of Scientific Instruments</i> , 2010, 81, 02B306.   | 1.3 | 10        |
| 116 | Resonant Inelastic Scattering Spectra of Free Molecules with Vibrational Resolution. <i>Physical Review Letters</i> , 2010, 104, 193002.   | 7.8 | 126       |
| 117 | Beneficial silver: antibacterial nanocomposite Ag-DLC coating to reduce osteolysis of orthopaedic implants. <i>Journal of Physics: Conference Series</i> , 2010, 252, 012005.                            | 0.4 | 6         |
| 118 | Ion acceleration and cooling in gasless self-sputtering. <i>Applied Physics Letters</i> , 2010, 97, .  | 3.3 | 21        |
| 119 | On the deactivation of the dopant and electronic structure in reactively sputtered transparent Al-doped ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 132003.                    | 2.8 | 34        |
| 120 | Compression and strong rarefaction in high power impulse magnetron sputtering discharges. <i>Journal of Applied Physics</i> , 2010, 108, .   | 2.5 | 73        |
| 121 | Origin of the Delayed Current Onset in High-Power Impulse Magnetron Sputtering. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 3028-3034.  | 1.3 | 71        |
| 122 | Deposition rates of high power impulse magnetron sputtering: Physics and economics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 783-790.                   | 2.1 | 172       |
| 123 | Distance-dependent plasma composition and ion energy in high power impulse magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 275204.   | 2.8 | 23        |
| 124 | Supersonic metal plasma impact on a surface: an optical investigation of the pre-surface region. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 135201.   | 2.8 | 7         |
| 125 | Antibacterial efficacy of advanced silver-amorphous carbon coatings deposited using the pulsed dual cathodic arc technique. <i>Journal of Physics: Conference Series</i> , 2010, 252, 012012.            | 0.4 | 17        |
| 126 | Energetic deposition of metal ions: observation of self-sputtering and limited sticking for off-normal angles of incidence. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 065206.                | 2.8 | 18        |



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|-----|---|-----|-----------|
| 127 | Unfiltered and Filtered Cathodic Arc Deposition. , 2010, , 466-531.   |     | 14        |
| 128 | Ion species and charge states of vacuum arc plasma with gas feed and longitudinal magnetic field. , 2010, , .   |     | 0         |
| 129 | A seemingly simple task: Filling a solenoid volume in vacuum with dense plasma. , 2010, , .   |     | 0         |
| 130 | Broad, intense, quiescent beam of singly charged metal ions obtained by extraction from self-sputtering plasma far above the runaway threshold. Journal of Applied Physics, 2009, 106, 023306.                                  | 2.5 | 12        |
| 131 | Structural and spectroscopic studies of InGaN/GaN quantum structures implanted with rare earth ions. , 2009, , .  |     | 0         |
| 132 | Physical limits for high ion charge states in pulsed discharges in vacuum. Journal of Applied Physics, 2009, 105, 043303.   | 2.5 | 16        |
| 133 | A discussion on the absence of plasma in spark plasma sintering. Scripta Materialia, 2009, 60, 835-838.   | 5.2 | 204       |
| 134 | Electronic structure and conductivity of nanocomposite metal (Au, Ag, Cu, Mo)-containing amorphous carbon films. Solid State Sciences, 2009, 11, 1742-1746.   | 3.2 | 32        |
| 135 | Impact of Annealing on the Conductivity of Amorphous Carbon Films Incorporating Copper and Gold Nanoparticles Deposited by Pulsed Dual Cathodic Arc. Plasma Processes and Polymers, 2009, 6, S438.                              | 3.0 | 9         |
| 136 | A space-charge-neutralizing plasma for beam drift compression. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 22-30.               | 1.6 | 23        |
| 137 | Progress in beam focusing and compression for warm-dense matter experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 75-82. | 1.6 | 45        |
| 138 | Surface transformation of graphite or diamond following Highly Charged Ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 678-682.  | 1.4 | 2         |
| 139 | Electronic Structure of Water Molecules Confined in a Micelle Lattice. Journal of Physical Chemistry B, 2009, 113, 8201-8205.   | 2.6 | 20        |
| 140 | Local Electronic Structure of Functional Groups in Glycine As Anion, Zwitterion, and Cation in Aqueous Solution. Journal of Physical Chemistry B, 2009, 113, 16002-16006.   | 2.6 | 38        |
| 141 | Spectra and energy levels of Yb <sup>3+</sup> in AlN. Journal of Applied Physics, 2009, 106, 013106.  | 2.5 | 24        |
| 142 | Evolution of the plasma composition of a high power impulse magnetron sputtering system studied with a time-of-flight spectrometer. Journal of Applied Physics, 2009, 105, .  | 2.5 | 37        |
| 143 | Self-Sputtering Far above the Runaway Threshold: An Extraordinary Metal-Ion Generator. Physical Review Letters, 2009, 102, 045003.  | 7.8 | 72        |
| 144 | Plasma "anti-assistance" and "self-assistance" to high power impulse magnetron sputtering. Journal of Applied Physics, 2009, 105, .   | 2.5 | 38        |

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|-----|---|-----|-----------|
| 145 | Simulations and experiments of intense ion beam current density compression in space and time. <i>Physics of Plasmas</i> , 2009, 16, 056701.  | 1.9 | 15        |
| 146 | Deep oxidation of methane on particles derived from YSZ-supported Pd-Pt(O) coatings synthesized by Pulsed Filtered Cathodic Arc. <i>Catalysis Communications</i> , 2009, 10, 1410-1413.                                     | 3.3 | 9         |
| 147 | Functionalization of hydrogen-free diamond-like carbon films using open-air dielectric barrier discharge atmospheric plasma treatments. <i>Applied Surface Science</i> , 2008, 254, 5323-5328.                              | 6.1 | 16        |
| 148 | Electrochromically switched, gas-reservoir metal hydride devices with application to energy-efficient windows. <i>Thin Solid Films</i> , 2008, 517, 1021-1026.  | 1.8 | 16        |
| 149 | Physics of plasma-based ion implantation & deposition (PBIID) and high power impulse magnetron sputtering (HIPIMS): A comparison. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 965-970. | 1.8 | 8         |
| 150 | Comparative surface and nano-tribological characteristics of nanocomposite diamond-like carbon thin films doped by silver. <i>Applied Surface Science</i> , 2008, 255, 2551-2556.   | 6.1 | 174       |
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