

Rajdeep Singh Rawat

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

272
papers

6,222
citations

42
h-index

64
g-index

322
ext. papers

6,878
ext. citations

3.9
avg, IF

5.87
L-index

#	Paper	IF	Citations
272	Determination of the Tricritical point, H-T phase diagram and Exchange Interactions in the Antiferromagnet MnTaO ₂ . <i>Journal of Physics Condensed Matter</i> , 2022 ,	1.8	2
271	Rapid and Stable Plasma Transformation of Polyester Fabrics for Highly Efficient Oil-Water Separation. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 17-20	0.4	
270	A Mechanically Reliable Transparent Antifogging Coating on Polymeric Lenses. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101864	4.6	2
269	Substrate orientation dependent characteristics of half-metallic and metallic superlattices [La _{0.7} Sr _{0.3} MnO ₃ /LaNiO ₃] ₁₀ . <i>Journal of Applied Physics</i> , 2022 , 131, 125305	2.5	0
268	Magnetization reversal in chemically synthesized chains of permalloy nanospheres. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	0
267	Angle selective piezoelectric strain-controlled magnetization switching in artificial spin ice based multiferroic system. <i>Journal of Applied Physics</i> , 2022 , 131, 183901	2.5	
266	Dynamic Color Generation with Electrically Tunable Thin Film Optical Coatings. <i>Nano Letters</i> , 2021 , 21, 10070-10075	11.5	3
265	Facet controlled anisotropic magnons in Y ₃ Fe ₅ O ₁₂ thin films. <i>Applied Physics Letters</i> , 2021 , 119, 162403	3.4	0
264	Plasma processed tungsten for fusion reactor first-wall material. <i>Journal of Materials Science</i> , 2021 , 56, 10494-10509	4.3	2
263	Electrically Tunable All-PCM Visible Plasmonics. <i>Nano Letters</i> , 2021 , 21, 4044-4050	11.5	4
262	Effect of Light and Heat on Polymer-Based Resistive Random Access Memory. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100050	2.5	
261	Highly dose dependent damping-like spin-orbit torque efficiency in O-implanted Pt. <i>Applied Physics Letters</i> , 2021 , 118, 252406	3.4	4
260	Catalyst free growth of ZnO thin film nanostructures on Si substrate by thermal evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
259	Deterministic Light Yield, Fast Scintillation, and Microcolumn Structures in Lead Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14082-14088	3.8	10
258	Nonstoichiometric FePt Nanoclusters for Heated Dot Magnetic Recording Media. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7079-7085	5.6	1
257	Enhanced Spin Hall Effect in S-Implanted Pt. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000112	4.3	8
256	Plasma focus neutron energy and anisotropy measurements using zirconium-beryllium pair activation detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 988, 164830	1.2	2

255	C-plasma derived precise volumetric buffering for high-rate and stable alloying-type energy storage. <i>Nano Energy</i> , 2021 , 80, 105557	17.1	0
254	Volatile Ultrafast Switching at Multilevel Nonvolatile States of Phase Change Material for Active Flexible Terahertz Metadevices. <i>Advanced Functional Materials</i> , 2021 , 31, 2100200	15.6	19
253	Ultrafast Photo-Thermal Switching of Terahertz Spin Currents. <i>Advanced Functional Materials</i> , 2021 , 31, 2010453	15.6	14
252	Electrically Tunable Singular Phase and Goos-Hñchen Shifts in Phase-Change-Material-Based Thin-Film Coatings as Optical Absorbers. <i>Advanced Materials</i> , 2021 , 33, e2006926	24	11
251	Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNbO. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
250	Broad-energy oxygen ion implantation controlled magnetization dynamics in CoFeTaZr. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159685	5.7	3
249	Challenges and Applications to and TEM Imaging and Spectroscopic Capabilities in a Cryogenic Temperature Range. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	2
248	Spin-casted (Gd _z) co-doped BiFeO ₃ thin films for sustainable oxide-electronics. <i>Materials Science in Semiconductor Processing</i> , 2021 , 132, 105902	4.3	2
247	High energy density pulsed argon plasma synthesized nanostructured tungsten for damage mitigation under fusion relevant energetic he ion irradiation. <i>Applied Surface Science Advances</i> , 2021 , 6, 100172	2.6	
246	The role of epitaxial strain on the electronic and magnetic structure of La _{0.7} Sr _{0.3} MnO ₃ /LaCoO ₃ bilayers. <i>AIP Advances</i> , 2021 , 11, 125115	1.5	
245	Rapid and Stable Plasma Transformation of Polyester Fabrics for Highly Efficient Oil-Water Separation. <i>Global Challenges</i> , 2020 , 4, 1900095	4.3	3
244	Nanostructured polycrystalline Ni ₃ S ₂ as electrode material for lithium ion batteries. <i>Materials Research Express</i> , 2020 , 7, 015517	1.7	2
243	Atmospheric microplasma based binary Pt ₃ Co nanoflowers synthesis. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 225201	3	
242	Enhancing bifunctionality of CoN nanowires by Mn doping for long-lasting Zn-air batteries. <i>Science China Chemistry</i> , 2020 , 63, 890-896	7.9	17
241	Non-focusing dense plasma focus device based alternative synthesis technology for ZnO thin films. <i>Ceramics International</i> , 2020 , 46, 4690-4699	5.1	3
240	Tuning magnetic properties, thermal stability and microstructure of NdFeB magnets with diffusing Pr-Zn films. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 81-87	9.1	10
239	Tailoring oxygen sensing characteristics of Co ₃ O ₄ nanostructures through Gd doping. <i>Ceramics International</i> , 2020 , 46, 9498-9506	5.1	19
238	Electro-Ionic Control of Surface Plasmons in Graphene-Layered Heterostructures. <i>Nano Letters</i> , 2020 , 20, 8305-8311	11.5	2

237	Nickel ferrite embedded polyvinylidene fluoride composite based flexible magneto-electric systems. <i>Ceramics International</i> , 2020 , 46, 25873-25880	5.1	9
236	Magnetoimpedance of Epitaxial YFeO (001) Thin Film in Low-Frequency Regime. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41802-41809	9.5	7
235	Experimental Study of the Effect of External Inductance on Pinch Characteristics and Neon Soft X-Ray Yield in Filippov-Type Plasma Focus Device. <i>Plasma Physics Reports</i> , 2020 , 46, 696-702	1.2	0
234	Characteristics of Fast ion beam in Neon and Argon filled plasma focus correlated with Lee Model Code. <i>Vacuum</i> , 2019 , 169, 108916	3.7	3
233	Investigating the role of precipitating agents on the electrochemical performance of MgCo ₂ O ₄ . <i>Journal of Electroanalytical Chemistry</i> , 2019 , 851, 113403	4.1	5
232	Correlation of Characteristic Ne SXR Signal Pulse With Computed Plasma Focus Dynamics in the Ne (97.5%)Ar (2.5%) Admixtures of the INTI PF Machine at 12 kV. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 1297-1301	1.3	2
231	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. <i>ACS Photonics</i> , 2019 , 6, 1610-1617	6.3	24
230	Remote plasma-assisted low-temperature large-area graphene synthesis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 041201	1.3	5
229	Comparative numerical study of the dynamics, ion beam and flow energetics of fast and slow focus modes in a 2 kJ plasma focus operated in various gases. <i>Vacuum</i> , 2019 , 165, 337-342	3.7	4
228	Comparison of sintering condition and radio frequency plasma discharge on the conversion of coal/biomass fly ash into high-temperature thermal energy storage material. <i>Energy Conversion and Management</i> , 2019 , 192, 180-187	10.6	6
227	Facile high yield synthesis of MgCo ₂ O ₄ and investigation of its role as anode material for lithium ion batteries. <i>Ceramics International</i> , 2019 , 45, 14775-14782	5.1	15
226	Simultaneous Immobilization and Conversion of Polysulfides on Co ₃ O ₄ /TiO ₂ Heterostructured Mediators toward High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2570-2578	6.1	13
225	Hierarchical vertical graphene nanotube arrays via universal carbon plasma processing strategy: A platform for high-rate performance battery electrodes. <i>Energy Storage Materials</i> , 2019 , 18, 462-469	19.4	9
224	Investigation of MnCo ₂ O ₄ /MWCNT composite as anode material for lithium ion battery. <i>Ceramics International</i> , 2019 , 45, 10619-10625	5.1	8
223	Effects of fusion relevant transient energetic radiation, plasma and thermal load on PLANSEE double forged tungsten samples in a low-energy plasma focus device. <i>Applied Surface Science</i> , 2018 , 443, 311-320	6.7	14
222	Preparation and characterization of Pt loaded WO ₃ films suitable for gas sensing applications. <i>Applied Surface Science</i> , 2018 , 440, 320-330	6.7	18
221	Self-organized nanostructure formation on the graphite surface induced by helium ion irradiation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1601-1608	2.3	4
220	Prereduction of Metal Oxides via Carbon Plasma Treatment for Efficient and Stable Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2018 , 14, e1800340	11	24

219	Tailoring of optical band gap and electrical conductivity in a-axis oriented Ni doped Chromium Oxide thin films. <i>Ceramics International</i> , 2018 , 44, 11187-11195	5.1	9
218	Self-Stabilized Carbon- FePt Nanoparticles for Heated Dot Recording Media. <i>IEEE Magnetics Letters</i> , 2018 , 9, 1-5	1.6	75
217	Role of ion energy flux on the structural and morphological properties of silicon oxy-nitride composite films deposited by plasma focus device. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 929-943	0.9	
216	A brief review on plasma for synthesis and processing of electrode materials. <i>Materials Today Nano</i> , 2018 , 3, 28-47	9.7	30
215	Sodium-Ion Batteries: C-Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Na-Ion Storage (Adv. Mater. 49/2018). <i>Advanced Materials</i> , 2018 , 30, 1870380	24	2
214	C-Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Na-Ion Storage. <i>Advanced Materials</i> , 2018 , 30, e1804833	24	98
213	A nonlinear global model of single frequency capacitively coupled plasma and its experimental validation. <i>AIP Advances</i> , 2018 , 8, 045113	1.5	7
212	The electrical asymmetry effect in a multi frequency geometrically asymmetric capacitively coupled plasma: A study by a nonlinear global model. <i>Journal of Applied Physics</i> , 2018 , 123, 183303	2.5	7
211	Topographical, structural and hardness changes in surface layer of stainless steel-AISI 304 irradiated by fusion-relevant high energy deuterium ions and neutrons in a low energy plasma focus device. <i>Surface and Coatings Technology</i> , 2017 , 313, 73-81	4.4	13
210	Plasma focus neutron anisotropy measurements and influence of a deuteron beam obstacle. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 848, 60-65	1.2	5
209	PMT-scintillator system set up for D-D neutron TOF measurements in INTI plasma focus device 2017 ,		1
208	Dense-plasma-driven ultrafast formation of FePt organization on silicon substrate. <i>Bulletin of Materials Science</i> , 2017 , 40, 233-238	1.7	4
207	Fast Faraday cup for fast ion beam TOF measurements in deuterium filled plasma focus device and correlation with Lee model. <i>Physics of Plasmas</i> , 2017 , 24, 063302	2.1	9
206	Asian African Association for Plasma Training (AAAPT) History, Network, Activities, and Impact 2017 , 1-37		1
205	Dense Plasma Focus High-Energy-Density Pulsed Plasma Device Based Novel Facility for Controlled Material Processing and Synthesis 2017 , 39-112		1
204	Carbon-Based Nanomaterials Using Low-Temperature Plasmas for Energy Storage Application 2017 , 739-805		
203	Inelastic deformation of plasma polymerised thin films facilitated by transient dense plasma focus irradiation. <i>Materials Research Express</i> , 2017 , 4, 096407	1.7	1
202	Nitrogen-Plasma-Activated Hierarchical Nickel Nitride Nanocorals for Energy Applications. <i>Small</i> , 2017 , 13, 1604265	11	42

201	Plasma for Rapid Conversion Reactions and Surface Modification of Electrode Materials. <i>Small Methods</i> , 2017 , 1, 1700164	12.8	39
200	Effect of annealing temperature on the structural, morphological, and mechanical properties of polycrystalline zirconium oxynitride composite films deposited by plasma focus device. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 125501	1.4	1
199	Sahand Plasma Focus Emitted More Than 35 J in Yield Neon Soft X-ray. <i>Journal of Fusion Energy</i> , 2017 , 36, 240-245	1.6	3
198	Damage Study of Irradiated Tungsten using fast focus mode of a 2.2 kJ plasma focus. <i>Vacuum</i> , 2017 , 144, 14-20	3.7	15
197	Ultrathin CNTs@FeOOH nanoflake core/shell networks as efficient electrocatalysts for the oxygen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 709-715	7.8	48
196	Resistive switching in graphene-organic device: Charge transport properties of graphene-organic device through electric field induced optical second harmonic generation and charge modulation spectroscopy. <i>Carbon</i> , 2017 , 112, 111-116	10.4	25
195	Structural, compositional and hardness properties of hydrogenated amorphous carbon nitride thin films synthesized by dense plasma focus device. <i>Surface and Interface Analysis</i> , 2017 , 49, 548-553	1.5	9
194	Hydrogen sensors based on Pt-loaded WO ₃ sensing layers. <i>Europhysics Letters</i> , 2016 , 114, 66002	1.6	15
193	Plasma surface functionalization induces nanostructuring and nitrogen-doping in carbon cloth with enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17801-17808	13	57
192	Temperature-dependent stoichiometric alteration in ZnO:Mn nanostructured thin films for enhanced ferromagnetic response. <i>Applied Surface Science</i> , 2016 , 387, 461-468	6.7	8
191	Structural, morphological and optical changes in periodic fractal nanosymmetries of Ni doped chromium oxide ceramic nanostructures. <i>Ceramics International</i> , 2016 , 42, 4952-4963	5.1	6
190	MoS ₂ anchored free-standing three dimensional vertical graphene foam based binder-free electrodes for enhanced lithium-ion storage. <i>Electrochimica Acta</i> , 2016 , 194, 151-160	6.7	26
189	Green synthesis of vertical graphene nanosheets and their application in high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 23968-23973	3.7	29
188	Influence of Krypton Seeding on DD Fusion Neutron Production: Evaluation Methodology for Plasma Focus Optimization. <i>Journal of Fusion Energy</i> , 2016 , 35, 370-377	1.6	6
187	L-shell spectroscopic diagnostics of radiation from krypton HED plasma sources. <i>Review of Scientific Instruments</i> , 2016 , 87, 11E315	1.7	2
186	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Low-Cost Catalysts for Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8670-4	16.4	529
185	3D Porous Hierarchical Nickel Molybdenum Nitrides Synthesized by RF Plasma as Highly Active and Stable Hydrogen-Evolution-Reaction Electrocatalysts. <i>Advanced Energy Materials</i> , 2016 , 6, 1600221	21.8	363
184	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Low-Cost Catalysts for Oxygen Evolution. <i>Angewandte Chemie</i> , 2016 , 128, 8812-8816	3.6	103

183	Structural and mechanical properties of Al ₂ O ₃ films deposited at room temperature by plasma focus device. <i>Chinese Physics B</i> , 2016 , 25, 075201	1.2	4
182	Ferromagnetic signature in vanadium doped ZnO thin films grown by pulsed laser deposition. <i>Journal of Materials Research</i> , 2016 , 31, 3223-3229	2.5	4
181	Magneto-absorption effects in magnetic-field assisted laser ablation of silicon by UV nanosecond pulses. <i>Applied Physics Letters</i> , 2016 , 108, 254103	3.4	16
180	A study of structural and mechanical properties of nano-crystalline tungsten nitride film synthesis by plasma focus. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 73-83	0.9	6
179	Role of Nitrogen Pressure on the Structural and Mechanical Properties of ZrON Composite Films Deposited by Plasma Focus Device. <i>Journal of Fusion Energy</i> , 2015 , 34, 1284-1296	1.6	4
178	Synthesis of nano-structure tungsten nitride thin films on silicon using Mather-type plasma focus. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 557-566	0.9	3
177	Free standing 3D graphene nano-mesh synthesis by RF plasma CVD using non-synthetic precursor. <i>Materials Research Bulletin</i> , 2015 , 71, 61-66	5.1	10
176	External circuit integration with electromagnetic particle in cell modeling of plasma focus devices. <i>Physics of Plasmas</i> , 2015 , 22, 033514	2.1	3
175	Laser Shadowgraphic Study of the Influence of Krypton-Seeding, Switch Synchronization and Electrode Geometry on Plasma Dynamic in Plasma Focus Device. <i>Journal of Fusion Energy</i> , 2015 , 34, 794-801	1.6	5
174	. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 2539-2546	1.3	8
173	Catalyst-Free Plasma Enhanced Growth of Graphene from Sustainable Sources. <i>Nano Letters</i> , 2015 , 15, 5702-8	11.5	101
172	Comparison of Measured Neutron Yield Versus Pressure Curves for FMPF-3, NX2 and NX3 Plasma Focus Machines Against Computed Results Using the Lee Model Code. <i>Journal of Fusion Energy</i> , 2015 , 34, 474-479	1.6	18
171	X-ray lithography of SU8 photoresist using fast miniature plasma focus device and its characterization using FTIR spectroscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 560-569	2.3	5
170	Study of Structural and Mechanical Properties of WN/a-Si ₃ N ₄ Hard Coatings Grown by Plasma Focus. <i>Journal of Fusion Energy</i> , 2015 , 34, 435-442	1.6	8
169	Structural and Mechanical Properties of Zirconia Film Deposited by Plasma Focus Device. <i>Journal of Fusion Energy</i> , 2015 , 34, 930-940	1.6	6
168	Dense Plasma Focus - From Alternative Fusion Source to Versatile High Energy Density Plasma Source for Plasma Nanotechnology. <i>Journal of Physics: Conference Series</i> , 2015 , 591, 012021	0.3	25
167	Structural, dielectric and piezoelectric properties of SrBi ₂ Nb ₂ O ₉ and Sr _{0.8} Bi _{2.2} Nb ₂ O ₉ ceramics. <i>Ceramics International</i> , 2015 , 41, 4468-4478	5.1	23
166	Structural, elemental, optical and magnetic study of Fe doped ZnO and impurity phase formation. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 142-149	3.6	68

165	The Effect of Specific Heat Ratio on Neutron Yield. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 99-104.	1.3	4
164	A 160 kJ dual plasma focus (DuPF) for fusion-relevant materials testing and nano-materials fabrication. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 32, 1460322	0.7	3
163	Tailoring out-of-plane magnetic properties of pulsed laser deposited FePt thin films by changing laser energy fluence. <i>Applied Surface Science</i> , 2014 , 315, 37-44	6.7	2
162	Influence of Different CH ₄ /N ₂ Ratios on Structural and Mechanical Properties of a-CN _x :H Film Synthesized Using Plasma Focus. <i>Journal of Fusion Energy</i> , 2014 , 33, 640-647	1.6	5
161	Elimination of impurity phase formation in FePt magnetic thin films prepared by pulsed laser deposition. <i>Applied Surface Science</i> , 2014 , 288, 381-391	6.7	7
160	DLC coating on stainless steel by pulsed methane discharge in repetitive plasma focus. <i>Applied Surface Science</i> , 2014 , 303, 187-195	6.7	19
159	Potential medical applications of the plasma focus in the radioisotope production for PET imaging. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 2168-2170	2.3	11
158	Nanofabrication using home-made RF plasma coupled chemical vapour deposition system. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 32, 1460342	0.7	
157	Optimization of neon soft X-ray emission from 200 J plasma focus device for application in soft X-ray lithography. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 32, 1460323	0.7	3
156	Current sheath formation dynamics and structure for different insulator lengths of plasma focus device. <i>Physics of Plasmas</i> , 2014 , 21, 113508	2.1	6
155	Mechanical properties of Al/a-C nanocomposite thin films synthesized using a plasma focus device. <i>Chinese Physics B</i> , 2014 , 23, 025204	1.2	6
154	Synthesis of ZrSiN composite films using a plasma focus device. <i>Chinese Physics B</i> , 2014 , 23, 065204	1.2	5
153	2014 ,		1
152	Electromagnetic particle in cell modeling of the plasma focus: Current sheath formation and lift off. <i>Physics of Plasmas</i> , 2014 , 21, 023509	2.1	6
151	Surface modification of platinum by laser-produced X-rays. <i>Radiation Effects and Defects in Solids</i> , 2014 , 169, 942-953	0.9	1
150	High temperature ferromagnetic ordering in c-axis oriented ZnO:Mn nanoparticle thin films by tailoring substrate temperature. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 32, 1460341	0.7	5
149	Iron oxide magnetic nanoparticles synthesized by atmospheric microplasmas. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 32, 1460343	0.7	3
148	Deposition of alumina stabilized zirconia at room temperature by plasma focus device. <i>Applied Surface Science</i> , 2014 , 288, 304-312	6.7	30

147	Influence of Kr doping on neon soft X-rays emission in fast miniature plasma focus device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 804-809	2.3	7
146	Synthesis and characterization of bulk cobalt-doped ZnO and their thin films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 3115-3123	1.5	5
145	Effect of arc current on microstructure, texturing and wear behavior of plasma sprayed CaZrO ₃ coatings. <i>Ceramics International</i> , 2013 , 39, 2293-2302	5.1	10
144	Dip Coating of Nano Hydroxyapatite on Titanium Alloy with Plasma Assisted Al ₂ O ₃ Buffer Layer: A Novel Coating Approach. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 557-564	9.1	21
143	SXR Measurements in INTI PF Operated in Neon to Identify Typical (Normal N) Profile for Shots With Good Yield. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 3166-3172	1.3	13
142	High Performance High Repetition Rate Miniature Plasma Focus Device: Record Time Averaged Neutron Yield at 200 J with Enhanced Reproducibility. <i>Journal of Fusion Energy</i> , 2013 , 32, 2-10	1.6	28
141	Magnetic Reynolds Number and Neon Current Sheet Structure in the Axial Phase of a Plasma Focus. <i>Journal of Fusion Energy</i> , 2013 , 32, 50-55	1.6	11
140	Exciting Dilute Magnetic Semiconductor: Copper-Doped ZnO. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 187-195	1.5	22
139	Optimization of neon soft X-rays emission from 200 J fast miniature dense plasma focus device: A potential source for soft X-ray lithography. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1290-1296	2.3	23
138	. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 701-715	1.3	46
137	Hard TiC _x /SiC/a-C:H nanocomposite thin films using pulsed high energy density plasma focus device. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 301, 53-61	1.2	25
136	Effect of surfactant and heat treatment on morphology, surface area and crystallinity in hydroxyapatite nanocrystals. <i>Ceramics International</i> , 2013 , 39, 39-50	5.1	44
135	Enhanced ferromagnetic response in ZnO:Mn thin films by tailoring composition and defect concentration. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 344, 171-175	2.8	21
134	Role of Ion Beam Irradiation and Annealing Effect on the Deposition of ALON Nanolayers by Using Plasma Focus Device. <i>Plasma Science and Technology</i> , 2013 , 15, 1127-1135	1.5	4
133	The effect of helium impurity addition on current sheath speed in argon-operated plasma focus using a tridimensional magnetic probe. <i>Journal of Plasma Physics</i> , 2013 , 79, 867-871	2.7	
132	FTIR SPECTROSCOPIC STUDIES ON CROSS LINKING OF SU-8 PHOTORESIST. <i>Cosmos</i> , 2013 , 09, 37-46		3
131	SPECTROSCOPIC STUDY OF DEEP LEVEL EMISSIONS FROM ACCEPTOR DEFECTS IN ZnO THIN FILMS WITH OXYGEN RICH STOICHIOMETRY. <i>Cosmos</i> , 2013 , 09, 57-63		
130	High Energy Density Pulsed Plasmas in Plasma Focus: Novel Plasma Processing Tool for Nanophase Hard Magnetic Material Synthesis. <i>Nanoscience and Nanotechnology Letters</i> , 2013 , 4, 251-274	0.8	33

129	Post-annealing effect on the structural and mechanical properties of multiphase zirconia films deposited by a plasma focus device. <i>Chinese Physics B</i> , 2013 , 22, 127306	1.2	7
128	Increasing of Hardness of Titanium Using Energetic Nitrogen Ions from Sahand as a Filippov Type Plasma Focus Facility. <i>Journal of Fusion Energy</i> , 2012 , 31, 65-72	1.6	22
127	Measurement and Processing of Fast Pulsed Discharge Current in Plasma Focus Machines. <i>Journal of Fusion Energy</i> , 2012 , 31, 198-204	1.6	30
126	Cationic quaternary chalcohalide nanobelts: Hg ₄ In ₂ Q ₃ Cl ₈ (Q = S, Se, Te). <i>RSC Advances</i> , 2012 , 2, 6401	3.7	10
125	Coded aperture imaging of alpha source spatial distribution. <i>Radiation Measurements</i> , 2012 , 47, 992-999	1.5	4
124	Neutron Emission Characteristics of NX-3 Plasma Focus Device: Speed Factor as the Guiding Rule for Yield Optimization. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 3280-3289	1.3	20
123	Coded aperture imaging of fusion source in a plasma focus operated with pure D ₂ and a D ₂ -Kr gas admixture. <i>Applied Physics Letters</i> , 2012 , 101, 114104	3.4	11
122	Alteration of Mn exchange coupling by oxygen interstitials in ZnO:Mn thin films. <i>Applied Surface Science</i> , 2012 , 258, 6373-6378	6.7	48
121	Effects of laser energy fluence on the onset and growth of the Rayleigh-Taylor instabilities and its influence on the topography of the Fe thin film grown in pulsed laser deposition facility. <i>Physics of Plasmas</i> , 2012 , 19, 103504	2.1	9
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