

Rajdeep Singh Rawat

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272
papers

6,222
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322
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ext. citations

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avg, IF

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#	Paper	IF	Citations
272	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
271	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
270	Deposition of titanium nitride thin films on stainless steel/AISI 304 substrates using a plasma focus device. <i>Surface and Coatings Technology</i> , 2003 , 173, 276-284	4.4	104
269	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
268	Catalyst-Free Plasma Enhanced Growth of Graphene from Sustainable Sources. <i>Nano Letters</i> , 2015 , 15, 5702-8	11.5	101
267	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
266	Room temperature deposition of titanium carbide thin films using dense plasma focus device. <i>Surface and Coatings Technology</i> , 2001 , 138, 159-165	4.4	91
265	Crystallization of an amorphous lead zirconate titanate thin film with a dense-plasma-focus device. <i>Physical Review B</i> , 1993 , 47, 4858-4862	3.3	83
264	Oxygen rich p-type ZnO thin films using wet chemical route with enhanced carrier concentration by temperature-dependent tuning of acceptor defects. <i>Journal of Applied Physics</i> , 2011 , 110, 093522	2.5	78
263	Soft X-ray optimization studies on a dense plasma focus device operated in neon and argon in repetitive mode. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 2227-2235	1.3	78
262	Self-Stabilized Carbon- FePt Nanoparticles for Heated Dot Recording Media. <i>IEEE Magnetics Letters</i> , 2018 , 9, 1-5	1.6	75
261	Effect of energetic ion irradiation on CdI ₂ films. <i>Journal of Applied Physics</i> , 2004 , 95, 7725-7730	2.5	74
260	Nitridation of zirconium using energetic ions from plasma focus device. <i>Thin Solid Films</i> , 2008 , 516, 8255-8263	73	
259	Optimization of the high pressure operation regime for enhanced neutron yield in a plasma focus device. <i>Plasma Sources Science and Technology</i> , 2005 , 14, 12-18	3.5	71
258	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
257	Optimizing UNU/ICTP PFF Plasma Focus for Neon Soft X-ray Operation. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 1276-1282	1.3	66
256	Effect of insulator sleeve length on soft x-ray emission from a neon-filled plasma focus device. <i>Plasma Sources Science and Technology</i> , 2004 , 13, 569-575	3.5	66

255	Computing plasma focus pinch current from total current measurement. <i>Applied Physics Letters</i> , 2008 , 92, 111501	3.4	61
254	Thin carbon film deposition using energetic ions of a dense plasma focus. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 226, 212-216	2.3	60
253	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
252	Quenching of surface traps in Mn doped ZnO thin films for enhanced optical transparency. <i>Applied Surface Science</i> , 2011 , 258, 890-897	6.7	57
251	Spectral study of the electron beam emitted from a 3 kJ plasma focus. <i>Plasma Sources Science and Technology</i> , 2005 , 14, 549-560	3.5	57
250	Numerical experiments on plasma focus pinch current limitation. <i>Plasma Physics and Controlled Fusion</i> , 2008 , 50, 065012	2	55
249	Soft x-ray yield from NX2 plasma focus. <i>Journal of Applied Physics</i> , 2009 , 106, 023309	2.5	54
248	Synthesis of nanocrystalline multiphase titanium oxycarbide (TiC _x O _y) thin films by UNU/ICTP and NX2 plasma focus devices. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 90, 669-677	2.6	54
247	Diode like behaviour of an ion irradiated polyaniline film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 215, 63-68	2.3	53
246	Nano-structured Fe thin film deposition using plasma focus device. <i>Applied Surface Science</i> , 2006 , 253, 1611-1615	6.7	52
245	Dense plasma focus energetic ions based fullerene films on a Si(111) substrate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 239, 109-114	2.3	50
244	Structural, optical and magnetic properties of (ZnO) _{1-x} (MnO ₂) _x thin films deposited at room temperature. <i>Applied Surface Science</i> , 2008 , 254, 7285-7289	6.7	49
243	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
242	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
241	Compact sub-kilojoule range fast miniature plasma focus as portable neutron source. <i>Plasma Sources Science and Technology</i> , 2008 , 17, 045020	3.5	48
240	Numerical experiments on plasma focus neon soft x-ray scaling. <i>Plasma Physics and Controlled Fusion</i> , 2009 , 51, 105013	2	47
239	Nano-phase titanium dioxide thin film deposited by repetitive plasma focus: Ion irradiation and annealing based phase transformation and agglomeration. <i>Applied Surface Science</i> , 2008 , 255, 2932-2941	6.7	47
238	Effect of deposition parameters on morphology and size of FeCo nanoparticles synthesized by pulsed laser ablation deposition. <i>Applied Surface Science</i> , 2006 , 252, 2806-2816	6.7	47

237	. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 701-715	1.3	46
236	Structural, compositional and magnetic characterization of bulk V2O5 doped ZnO system. <i>Applied Surface Science</i> , 2010 , 256, 2309-2314	6.7	46
235	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
234	The incorporation of silver nanoparticles into polypyrrole: Conductivity changes. <i>Synthetic Metals</i> , 2007 , 157, 53-59	3.6	44
233	Effect of Anode Designs on Ion Emission Characteristics of a Plasma Focus Device. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 3039-3044	1.4	43
232	Nitrogen-Plasma-Activated Hierarchical Nickel Nitride Nanocorals for Energy Applications. <i>Small</i> , 2017 , 13, 1604265	11	42
231	Synthesis of nano-crystalline zirconium aluminium oxynitride (ZrAlON) composite films by dense plasma Focus device. <i>Applied Surface Science</i> , 2009 , 255, 6132-6140	6.7	42
230	Shadowgraphic studies of DLC film deposition process in dense plasma focus device. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 448-455	1.3	42
229	Current sheath curvature correlation with the neon soft x-ray emission from plasma focus device. <i>Plasma Sources Science and Technology</i> , 2005 , 14, 368-374	3.5	42
228	Deposition of zirconium carbonitride composite films using ion and electron beams emitted from plasma focus device. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 2228-2234	1.2	40
227	Soft X-ray Imaging using a Neon Filled Plasma Focus X-ray Source. <i>Journal of Fusion Energy</i> , 2004 , 23, 49-53	1.6	40
226	Plasma for Rapid Conversion Reactions and Surface Modification of Electrode Materials. <i>Small Methods</i> , 2017 , 1, 1700164	12.8	39
225	Enhanced indirect ferromagnetic p-d exchange coupling of Mn in oxygen rich ZnO:Mn nanoparticles synthesized by wet chemical method. <i>Journal of Applied Physics</i> , 2012 , 111, 033503	2.5	36
224	The effect of anode shape on neon soft x-ray emissions and current sheath configuration in plasma focus device. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 045203	3	36
223	Optimization of a plasma focus device as an electron beam source for thin film deposition. <i>Plasma Sources Science and Technology</i> , 2007 , 16, 250-256	3.5	36
222	Energetic ion irradiation of American diamond in a plasma focus device and characterization of irradiated material. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 243, 113-118	1.2	36
221	Effect of argon ion irradiation on Sb2Te3 films in a dense plasma focus device. <i>Materials Research Bulletin</i> , 2000 , 35, 477-486	5.1	36
220	Insights into the mechanism of magnetic particle assisted gene delivery. <i>Acta Biomaterialia</i> , 2011 , 7, 1319-1328	9.25	35

219	Magnetite phase due to energetic argon ion irradiation from a dense plasma focus on hematite thin film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 231, 434-438	2.3	35
218	Synthesis of FeCo nanoparticles by pulsed laser deposition in a diffusion cloud chamber. <i>Applied Surface Science</i> , 2008 , 254, 1909-1914	6.7	35
217	An improved radiative plasma focus model calibrated for neon-filled NX2 using a tapered anode. <i>Plasma Sources Science and Technology</i> , 2007 , 16, 116-123	3.5	35
216	Order of magnitude enhancement in neutron emission with deuterium-krypton admixture operation in miniature plasma focus device. <i>Applied Physics Letters</i> , 2008 , 93, 101501	3.4	33
215	Characteristics of FeCo nano-particles synthesized using plasma focus. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 2212-2219	3	33
214	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
213	A Magnetic Electron Analyzer for Plasma Focus Electron Energy Distribution Studies. <i>Journal of Fusion Energy</i> , 2006 , 25, 57-66	1.6	32
212	Study of a chemically amplified resist for X-ray lithography by Fourier transform infrared spectroscopy. <i>Applied Spectroscopy</i> , 2004 , 58, 1288-94	3.1	32
211	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
210	Deposition of alumina stabilized zirconia at room temperature by plasma focus device. <i>Applied Surface Science</i> , 2014 , 288, 304-312	6.7	30
209	On the plume splitting of pulsed laser ablated Fe and Al plasmas. <i>Physics of Plasmas</i> , 2010 , 17, 103105	2.1	30
208	Low energy repetitive miniature plasma focus device as high deposition rate facility for synthesis of DLC thin films. <i>Applied Surface Science</i> , 2010 , 256, 4977-4983	6.7	30
207	A brief review on plasma for synthesis and processing of electrode materials. <i>Materials Today Nano</i> , 2018 , 3, 28-47	9.7	30
206	Green synthesis of vertical graphene nanosheets and their application in high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 23968-23973	3.7	29
205	Pinching evidences in a miniature plasma focus with fast pseudospark switch. <i>Plasma Sources Science and Technology</i> , 2006 , 15, 614-619	3.5	29
204	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
203	Experimental study of neutron emission characteristics in a compact sub-kilojoule range miniature plasma focus device. <i>Plasma Physics and Controlled Fusion</i> , 2009 , 51, 075008	2	28
202	High energy ions and energetic plasma irradiation effects on aluminum in a Filippov-type plasma focus. <i>Applied Surface Science</i> , 2008 , 255, 2461-2465	6.7	28

201	Dense plasma focus ion-based titanium nitride coating on titanium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 1911-1917	1.2	27
200	FePt nanoparticle formation with lower phase transition temperature by single shot plasma focus ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 135213	3	27
199	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
198	Short-Lived PET Radioisotope Production in a Small Plasma Focus Device. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 3393-3397	1.3	26
197	Lowering of L10 phase transition temperature of FePt thin films by single shot H ⁺ ion exposure using plasma focus device. <i>Thin Solid Films</i> , 2009 , 517, 2753-2757	2.2	26
196	Effect of cathode structure on neutron yield performance of a miniature plasma focus device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 2568-2571	2.3	26
195	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
194	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
193	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
192	Drive Parameter as a Design Consideration for Mather and Filippov Types of Plasma Focus. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 2356-2362	1.3	25
191	. <i>IEEE Transactions on Plasma Science</i> , 1990 , 18, 1028-1032	1.3	25
190	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
189	Prereduction of Metal Oxides via Carbon Plasma Treatment for Efficient and Stable Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2018 , 14, e1800340	11	24
188	. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 3196-3202	1.3	24
187	Nuclear activation measurements of High energy deuterons from a small plasma focus. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 851-855	2.3	24
186	Nitrogen doping in pulsed laser deposited ZnO thin films using dense plasma focus. <i>Applied Surface Science</i> , 2011 , 257, 1979-1985	6.7	24
185	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
184	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

183	Effects of target-substrate geometry and ambient gas pressure on FePt nanoparticles synthesized by pulsed laser deposition. <i>Applied Surface Science</i> , 2009 , 255, 4372-4377	6.7	23
182	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
181	Exciting Dilute Magnetic Semiconductor: Copper-Doped ZnO. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 187-195	1.5	22
180	Miniature plasma focus as a novel device for synthesis of soft magnetic FeCo thin films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1043-1048	2.3	22
179	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
178	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
177	SYNTHESIS OF ZIRCONIUM OXYNITRIDE (ZrON) NANOCOMPOSITE FILMS ON ZIRCONIUM SUBSTRATE BY DENSE PLASMA FOCUS DEVICE. <i>International Journal of Modern Physics B</i> , 2008 , 22, 3941-3955	1.1	21
176	Neon soft x-ray emission studies from the UNU-ICTP plasma focus operated with longer than optimal anode length. <i>Plasma Sources Science and Technology</i> , 2007 , 16, 785-790	3.5	21
175	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
174	Magnetic spectrometry of high energy deuteron beams from pulsed plasma system. <i>Plasma Physics and Controlled Fusion</i> , 2010 , 52, 085007	2	20
173	Order of magnitude enhancement in x-ray yield at low pressure deuterium-krypton admixture operation in miniature plasma focus device. <i>Applied Physics Letters</i> , 2008 , 92, 011506	3.4	20
172	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
171	Miniature Plasma Focus Device as a Compact Hard X-Ray Source for Fast Radiography Applications. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 652-657	1.3	19
170	Geometrical characterization techniques for microlens made by thermal reflow of photoresist cylinder. <i>Optics and Lasers in Engineering</i> , 2008 , 46, 711-720	4.6	19
169	Characterization of chemically amplified resist for X-ray lithography by Fourier transform infrared spectroscopy. <i>Thin Solid Films</i> , 2006 , 504, 113-116	2.2	19
168	Tailoring oxygen sensing characteristics of Co ₃ O ₄ nanostructures through Gd doping. <i>Ceramics International</i> , 2020 , 46, 9498-9506	5.1	19
167	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
166	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

165	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
164	Self-organized transformation to polyaniline nanowires by pulsed energetic electron irradiation in a plasma focus device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1962-1966	2.3	18
163	Neutron and high energy deuteron anisotropy investigations in plasma focus device. <i>Physics of Plasmas</i> , 2009 , 16, 053301	2.1	18
162	Synthesis of nanostructured multiphase Ti(C,N)/a-C films by a plasma focus device. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 2777-2784	1.2	18
161	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
160	Nanostructuring of FePt thin films by plasma focus device: pulsed ion irradiation dependent phase transition and magnetic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 1027-1033	2.6	17
159	Role of charge particles irradiation on the deposition of AlN films using plasma focus device. <i>Journal of Crystal Growth</i> , 2011 , 317, 98-103	1.6	16
158	Realization of enhancement in time averaged neutron yield by using repetitive miniature plasma focus device as pulsed neutron source. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 235203	3	16
157	Backward high energy ion beams from plasma focus. <i>Physics of Plasmas</i> , 2009 , 16, 074506	2.1	16
156	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
155	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
154	Hydrogen sensors based on Pt-loaded WO ₃ sensing layers. <i>Europhysics Letters</i> , 2016 , 114, 66002	1.6	15
153	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
152	Pulsed ion beam-assisted carburizing of titanium in methane discharge. <i>Chinese Physics B</i> , 2010 , 19, 012801-10	1-10	15
151	Current Sheath Dynamics and its Evolution Studies in Sahand Filippov Type Plasma Focus. <i>Journal of Fusion Energy</i> , 2009 , 28, 371-376	1.6	15
150	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
149	Investigation of plume expansion dynamics and estimation of ablation parameters of laser ablated Fe plasma. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 135504	3	14
148	Investigation of impurity phase formation for (ZnO) _{1-x} (TMO) _x bulk samples formed by ball milling. <i>Applied Surface Science</i> , 2009 , 255, 4814-4820	6.7	14

147	Neutron production with mixture of deuterium and krypton in Sahand Filippov type plasma focus facility. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 3002-3006	2.3	14
146	Backward plume deposition as a novel technique for high deposition rate Fe nanoclusters synthesis. <i>Nanotechnology</i> , 2007 , 18, 115617	3.4	14
145	Magnetic trapping induced low temperature phase transition from fcc to fct in pulsed laser deposition of FePt:Al ₂ O ₃ nanocomposite thin films. <i>Applied Physics Letters</i> , 2007 , 91, 063120	3.4	14
144	Ultrafast Photo-Thermal Switching of Terahertz Spin Currents. <i>Advanced Functional Materials</i> , 2021 , 31, 2010453	15.6	14
143	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
142	Simultaneous Immobilization and Conversion of Polysulfides on Co ₃ O ₄ /CoN Heterostructured Mediators toward High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2570-2578	6.1	13
141	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
140	Beryllium neutron activation detector for pulsed DD fusion sources. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 659, 361-367	1.2	13
139	Ferromagnetism in ZnCoO thin films deposited by PLD. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 717-722	2.6	13
138	Synthesis of Fe ₃ O ₄ nanostructures by backward plume deposition and influence of ambient gas pressure on their morphology. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2548-2554	3	13
137	Nanostructured magnetic CoPt thin films synthesis using dense plasma focus device operating at sub-kilojoule range. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 175001	3	12
136	FePt : Al ₂ O ₃ nanocomposite thin films synthesized by magnetic trapping assisted pulsed laser deposition with reduced intergranular exchange coupling. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 095001	3	12
135	Novel fast-neutron activation counter for high repetition rate measurements. <i>Review of Scientific Instruments</i> , 2006 , 77, 10E713	1.7	12
134	Current sheath dynamics and X-ray emission studies from sequential dense plasma focus device. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 1263-1270	1.3	12
133	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
132	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
131	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
130	Study of X-ray emission of dense plasma focus device in the presence of external magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 234, 472-476	2.3	11

129	Study of X-ray lithographic conditions for SU-8 by Fourier transform infrared spectroscopy. <i>Microelectronic Engineering</i> , 2006 , 83, 1912-1917	2.5	11
128	Electrically Tunable Singular Phase and Goos-Hänchen Shifts in Phase-Change-Material-Based Thin-Film Coatings as Optical Absorbers. <i>Advanced Materials</i> , 2021 , 33, e2006926	24	11
127	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
126	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
125	Cationic quaternary chalcogenide nanobelts: Hg ₄ In ₂ Q ₃ Cl ₈ (Q = S, Se, Te). <i>RSC Advances</i> , 2012 , 2, 6401	3.7	10
124	Self-organization of a hybrid nanostructure consisting of a nanoneedle and nanodot. <i>Small</i> , 2012 , 8, 2807-2811	4.1	10
123	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
122	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
121	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
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