Rajdeep Singh Rawat

List of Publications by Year
in descending order

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321 papers	7,567 citations	57719 44 h-index	85498 71 g-index
322 all docs	322 docs citations	322 times ranked	6998 citing authors

#	Article	IF	Citations
1	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Lowâ€Cost Catalysts for Oxygen Evolution. Angewandte Chemie - International Edition, 2016, 55, 8670-8674.	7.2	624
2	3D Porous Hierarchical Nickelâ€“Molybdenum Nitrides Synthesized by RF Plasma as Highly Active and Stable Hydrogenâ€Evolutionâ€Reaction Electrocatalysts. Advanced Energy Materials, 2016, 6, 1600221.	10.2	464
3	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Lowâ€Cost Catalysts for Oxygen Evolution. Angewandte Chemie, 2016, 128, 8812-8816.	1.6	132
4	Catalyst-Free Plasma Enhanced Growth of Graphene from Sustainable Sources. Nano Letters, 2015, 15, 5702-5708.	4.5	124
5	Câ€Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Naâ€Ion Storage. Advanced Materials, 2018, 30, e1804833.	11.1	117
6	Deposition of titanium nitride thin films on stainless steelâ€”AISI 304 substrates using a plasma focus device. Surface and Coatings Technology, 2003, 173, 276-284.	2.2	113
7	Room temperature deposition of titanium carbide thin films using dense plasma focus device. Surface and Coatings Technology, 2001, 138, 159-165.	2.2	100
8	Oxygen rich p-type ZnO thin films using wet chemical route with enhanced carrier concentration by temperature-dependent tuning of acceptor defects. Journal of Applied Physics, 2011, 110, .	1.1	89
9	Structural, elemental, optical and magnetic study of Fe doped ZnO and impurity phase formation. Progress in Natural Science: Materials International, 2014, 24, 142-149.	1.8	87
10	Nitridation of zirconium using energetic ions from plasma focus device. Thin Solid Films, 2008, 516, 8255-8263.	0.8	86
11	Crystallization of an amorphous lead zirconate titanate thin film with a dense-plasma-focus device. Physical Review B, 1993, 47, 4858-4862.	1.1	85
12	Soft X-ray Optimization Studies on a Dense Plasma Focus Device Operated in Neon and Argon in Repetitive Mode. IEEE Transactions on Plasma Science, 2004, 32, 2227-2235.	0.6	85
13	Self-Stabilized Carbon-$L{{1}}_{0}$ FePt Nanoparticles for Heated Dot Recording Media. IEEE Magnetics Letters, 2018, 9, 1-5.	0.6	85
14	Effect of energetic ion irradiation on CdI2 films. Journal of Applied Physics, 2004, 95, 7725-7730.	1.1	84
15	Optimization of the high pressure operation regime for enhanced neutron yield in a plasma focus device. Plasma Sources Science and Technology, 2005, 14, 12-18.	1.3	81
16	Plasma surface functionalization induces nanostructuring and nitrogen-doping in carbon cloth with enhanced energy storage performance. Journal of Materials Chemistry A, 2016, 4, 17801-17808.	5.2	79
17	Optimizing UNU/ICTP PFF Plasma Focus for Neon Soft X-ray Operation. IEEE Transactions on Plasma Science, 2009, 37, 1276-1282.	0.6	71
18	Effect of insulator sleeve length on soft x-ray emission from a neon-filled plasma focus device. Plasma Sources Science and Technology, 2004, 13, 569-575.	1.3	69

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19	Thin carbon film deposition using energetic ions of a dense plasma focus. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 226, 212-216.	0.9	66
20	Synthesis of nanocrystalline multiphase titanium oxycarbide (TiCxOy) thin films by UNU/ICTP and NX2 plasma focus devices. Applied Physics A: Materials Science and Processing, 2008, 90, 669-677.	1.1	66
21	Computing plasma focus pinch current from total current measurement. Applied Physics Letters, 2008, 92, 111501.	1.5	65
22	Quenching of surface traps in Mn doped ZnO thin films for enhanced optical transparency. Applied Surface Science, 2011, 258, 890-897.	3.1	65
23	Nitrogenâ€Plasmaâ€Activated Hierarchical Nickel Nitride Nanocorals for Energy Applications. Small, 2017, 13, 1604265.	5.2	62
24	Ultrathin CNTs@FeOOH nanoflake core/shell networks as efficient electrocatalysts for the oxygen evolution reaction. Materials Chemistry Frontiers, 2017, 1, 709-715.	3.2	62
25	Spectral study of the electron beam emitted from a 3â€‰kJ plasma focus. Plasma Sources Science and Technology, 2005, 14, 549-560.	1.3	60
26	Numerical experiments on plasma focus pinch current limitation. Plasma Physics and Controlled Fusion, 2008, 50, 065012.	0.9	60
27	Plasma for Rapid Conversion Reactions and Surface Modification of Electrode Materials. Small Methods, 2017, 1, 1700164.	4.6	60
28	A brief review on plasma for synthesis and processing of electrode materials. Materials Today Nano, 2018, 3, 28-47.	2.3	59
29	Soft x-ray yield from NX2 plasma focus. Journal of Applied Physics, 2009, 106, 023309.	1.1	57
30	Diode like behaviour of an ion irradiated polyaniline film. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 215, 63-68.	0.9	55
31	Nano-structured Fe thin film deposition using plasma focus device. Applied Surface Science, 2006, 253, 1611-1615.	3.1	54
32	Compact sub-kilojoule range fast miniature plasma focus as portable neutron source. Plasma Sources Science and Technology, 2008, 17, 045020.	1.3	54
33	Structural, compositional and magnetic characterization of bulk V2O5 doped ZnO system. Applied Surface Science, 2010, 256, 2309-2314.	3.1	54
34	Dense plasma focus energetic ions based fullerene films on a Si(111) substrate. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 239, 109-114.	0.9	53
35	Numerical experiments on plasma focus neon soft x-ray scaling. Plasma Physics and Controlled Fusion, 2009, 51, 105013.	0.9	53
36	Alteration of Mn exchange coupling by oxygen interstitials in ZnO:Mn thin films. Applied Surface Science, 2012, 258, 6373-6378.	3.1	53

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37	Effect of surfactant and heat treatment on morphology, surface area and crystallinity in hydroxyapatite nanocrystals. Ceramics International, 2013, 39, 39-50.	2.3	53
38	Volatile Ultrafast Switching at Multilevel Nonvolatile States of Phase Change Material for Active Flexible Terahertz Metadevices. Advanced Functional Materials, 2021, 31, 2100200.	7.8	53
39	Effect of deposition parameters on morphology and size of FeCo nanoparticles synthesized by pulsed laser ablation deposition. Applied Surface Science, 2006, 252, 2806-2816.	3.1	52
40	Nano-phase titanium dioxide thin film deposited by repetitive plasma focus: Ion irradiation and annealing based phase transformation and agglomeration. Applied Surface Science, 2008, 255, 2932-2941.	3.1	52
41	The incorporation of silver nanoparticles into polypyrrole: Conductivity changes. Synthetic Metals, 2007, 157, 53-59.	2.1	51
42	Structural, optical and magnetic properties of (ZnO)1âˆ'x(MnO2)x thin films deposited at room temperature. Applied Surface Science, 2008, 254, 7285-7289.	3.1	51
43	High-Energy-Density Pinch Plasma: A Unique Nonconventional Tool for Plasma Nanotechnology. IEEE Transactions on Plasma Science, 2013, 41, 701-715.	0.6	50
44	Current sheath curvature correlation with the neon soft x-ray emission from plasma focus device. Plasma Sources Science and Technology, 2005, 14, 368-374.	1.3	46
45	Synthesis of nano-crystalline zirconium aluminium oxynitride (ZrAlON) composite films by dense plasma Focus device. Applied Surface Science, 2009, 255, 6132-6140.	3.1	46
46	Effect of Anode Designs on Ion Emission Characteristics of a Plasma Focus Device. Japanese Journal of Applied Physics, 2007, 46, 3039-3044.	0.8	45
47	Deposition of zirconium carbonitride composite films using ion and electron beams emitted from plasma focus device. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2228-2234.	0.6	45
48	Soft X-ray Imaging using a Neon Filled Plasma Focus X-ray Source. Journal of Fusion Energy, 2004, 23, 49-53.	0.5	44
49	Shadowgraphic Studies of DLC Film Deposition Process in Dense Plasma Focus Device. IEEE Transactions on Plasma Science, 2004, 32, 448-455.	0.6	42
50	Insights into the mechanism of magnetic particle assisted gene delivery. Acta Biomaterialia, 2011, 7, 1319-1326.	4.1	42
51	Enhanced indirect ferromagnetic p-d exchange coupling of Mn in oxygen rich ZnO:Mn nanoparticles synthesized by wet chemical method. Journal of Applied Physics, 2012, 111, .	1.1	42
52	Dense Plasma Focus - From Alternative Fusion Source to Versatile High Energy Density Plasma Source for Plasma Nanotechnology. Journal of Physics: Conference Series, 2015, 591, 012021.	0.3	42
53	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. ACS Photonics, 2019, 6, 1610-1617.	3.2	42
54	Synthesis of FeCo nanoparticles by pulsed laser deposition in a diffusion cloud chamber. Applied Surface Science, 2008, 254, 1909-1914.	3.1	41

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55	Enhancing bifunctionality of CoN nanowires by Mn doping for long-lasting Zn-air batteries. Science China Chemistry, 2020, 63, 890-896.	4.2	41
56	An improved radiative plasma focus model calibrated for neon-filled NX2 using a tapered anode. Plasma Sources Science and Technology, 2007, 16, 116-123.	1.3	40
57	The effect of anode shape on neon soft x-ray emissions and current sheath configuration in plasma focus device. Journal Physics D: Applied Physics, 2009, 42, 045203.	1.3	40
58	Effect of argon ion irradiation on Sb2Te3 films in a dense plasma focus device. Materials Research Bulletin, 2000, 35, 477-486.	2.7	39
59	Green synthesis of vertical graphene nanosheets and their application in high-performance supercapacitors. RSC Advances, 2016, 6, 23968-23973.	1.7	39
60	Prereduction of Metal Oxides via Carbon Plasma Treatment for Efficient and Stable Electrocatalytic Hydrogen Evolution. Small, 2018, 14, e1800340.	5.2	39
61	High Energy Density Pulsed Plasmas in Plasma Focus: Novel Plasma Processing Tool for Nanophase Hard Magnetic Material Synthesis. Nanoscience and Nanotechnology Letters, 2013, 4, 251-274.	0.4	39
62	On the plume splitting of pulsed laser ablated Fe and Al plasmas. Physics of Plasmas, 2010, 17, .	0.7	38
63	Magnetite phase due to energetic argon ion irradiation from a dense plasma focus on hematite thin film. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 231, 434-438.	0.9	37
64	Energetic ion irradiation of American diamond in a plasma focus device and characterization of irradiated material. Nuclear Instruments & Methods in Physics Research B, 2006, 243, 113-118.	0.6	37
65	Optimization of a plasma focus device as an electron beam source for thin film deposition. Plasma Sources Science and Technology, 2007, 16, 250-256.	1.3	37
66	Order of magnitude enhancement in neutron emission with deuterium-krypton admixture operation in miniature plasma focus device. Applied Physics Letters, 2008, 93, 101501.	1.5	37
67	Pinching evidences in a miniature plasma focus with fast pseudospark switch. Plasma Sources Science and Technology, 2006, 15, 614-619.	1.3	36
68	Characteristics of FeCo nano-particles synthesized using plasma focus. Journal Physics D: Applied Physics, 2006, 39, 2212-2219.	1.3	35
69	Measurement and Processing of Fast Pulsed Discharge Current in Plasma Focus Machines. Journal of Fusion Energy, 2012, 31, 198-204.	0.5	35
70	A Magnetic Electron Analyzer for Plasma Focus Electron Energy Distribution Studies. Journal of Fusion Energy, 2006, 25, 57-66.	0.5	34
71	Study of a Chemically Amplified Resist for X-Ray Lithography by Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2004, 58, 1288-1294.	1.2	33
72	Experimental study of neutron emission characteristics in a compact sub-kilojoule range miniature plasma focus device. Plasma Physics and Controlled Fusion, 2009, 51, 075008.	0.9	33

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73	Deposition of alumina stabilized zirconia at room temperature by plasma focus device. Applied Surface Science, 2014, 288, 304-312.	3.1	33
74	Structural, dielectric and piezoelectric properties of SrBi2Nb2O9 and Sr0.8Bi2.2Nb2O9 ceramics. Ceramics International, 2015, 41, 4468-4478.	2.3	33
75	Dynamic Color Generation with Electrically Tunable Thin Film Optical Coatings. Nano Letters, 2021, 21, 10070-10075.	4.5	33
76	Dense plasma focus ion-based titanium nitride coating on titanium. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1911-1917.	0.6	32
77	Low energy repetitive miniature plasma focus device as high deposition rate facility for synthesis of DLC thin films. Applied Surface Science, 2010, 256, 4977-4983.	3.1	32
78	MoS2 anchored free-standing three dimensional vertical graphene foam based binder-free electrodes for enhanced lithium-ion storage. Electrochimica Acta, 2016, 194, 151-160.	2.6	32
79	FePt nanoparticle formation with lower phase transition temperature by single shot plasma focus ion irradiation. Journal Physics D: Applied Physics, 2008, 41, 135213.	1.3	31
80	Tailoring oxygen sensing characteristics of Co3O4 nanostructures through Gd doping. Ceramics International, 2020, 46, 9498-9506.	2.3	31
81	High energy ions and energetic plasma irradiation effects on aluminum in a Filippov-type plasma focus. Applied Surface Science, 2008, 255, 2461-2465.	3.1	30
82	Effect of cathode structure on neutron yield performance of a miniature plasma focus device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2568-2571.	0.9	30
83	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. Carbon, 2017, 112, 111-116.	5.4	30
84	Electrically Tunable Singular Phase and Goosâ€“HÃnchen Shifts in Phaseâ€Changeâ€Materialâ€Based Thinâ€Film Coatings as Optical Absorbers. Advanced Materials, 2021, 33, e2006926.	11.1	30
85	Ultrafast Photoâ€Thermal Switching of Terahertz Spin Currents. Advanced Functional Materials, 2021, 31, 2010453.	7.8	29
86	Drive Parameter as a Design Consideration for Mather and Filippov Types of Plasma Focus. IEEE Transactions on Plasma Science, 2006, 34, 2356-2362.	0.6	28
87	Dip Coating of Nano Hydroxyapatite on Titanium Alloy with Plasma Assisted Î³-Alumina Buffer Layer: A Novel Coating Approach. Journal of Materials Science and Technology, 2013, 29, 557-564.	5.6	28
88	High Performance High Repetition Rate Miniature Plasma Focus Device: Record Time Averaged Neutron Yield at 200ÂJ with Enhanced Reproducibility. Journal of Fusion Energy, 2013, 32, 2-10.	0.5	28
89	Geometrical characterization techniques for microlens made by thermal reflow of photoresist cylinder. Optics and Lasers in Engineering, 2008, 46, 711-720.	2.0	27
90	Lowering of L10 phase transition temperature of FePt thin films by single shot H+ ion exposure using plasma focus device. Thin Solid Films, 2009, 517, 2753-2757.	0.8	27

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91	Short-Lived PET Radioisotope Production in a Small Plasma Focus Device. IEEE Transactions on Plasma Science, 2010, 38, 3393-3397.	0.6	27
92	Preparation and characterization of Pt loaded WO3 films suitable for gas sensing applications. Applied Surface Science, 2018, 440, 320-330.	3.1	27
93	Effect of targets on plasma focus dynamics. IEEE Transactions on Plasma Science, 1990, 18, 1028-1032.	0.6	26
94	Correlation of Measured Soft X-Ray Pulses With Modeled Dynamics of the Plasma Focus. IEEE Transactions on Plasma Science, 2011, 39, 3196-3202.	0.6	26
95	Nitrogen doping in pulsed laser deposited ZnO thin films using dense plasma focus. Applied Surface Science, 2011, 257, 1979-1985.	3.1	26
96	Exciting Dilute Magnetic Semiconductor: Copper-Doped ZnO. Journal of Superconductivity and Novel Magnetism, 2013, 26, 187-195.	0.8	26
97	Optimization of neon soft X-rays emission from 200 J fast miniature dense plasma focus device: A potential source for soft X-ray lithography. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1290-1296.	0.9	26
98	Hard TiCx/SiC/a-C:H nanocomposite thin films using pulsed high energy density plasma focus device. Nuclear Instruments & Methods in Physics Research B, 2013, 301, 53-61.	0.6	26
99	Nuclear activation measurements of High energy deuterons from a small plasma focus. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 851-855.	0.9	25
100	Tuning magnetic properties, thermal stability and microstructure of NdFeB magnets with diffusing Pr-Zn films. Journal of Materials Science and Technology, 2020, 41, 81-87.	5.6	25
101	Deterministic Light Yield, Fast Scintillation, and Microcolumn Structures in Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 14082-14088.	1.5	25
102	Enhanced ferromagnetic response in ZnO:Mn thin films by tailoring composition and defect concentration. Journal of Magnetism and Magnetic Materials, 2013, 344, 171-175.	1.0	24
103	Characterization of chemically amplified resist for X-ray lithography by Fourier transform infrared spectroscopy. Thin Solid Films, 2006, 504, 113-116.	0.8	23
104	Effects of targetâ€“substrate geometry and ambient gas pressure on FePt nanoparticles synthesized by pulsed laser deposition. Applied Surface Science, 2009, 255, 4372-4377.	3.1	23
105	Miniature plasma focus as a novel device for synthesis of soft magnetic FeCo thin films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1043-1048.	0.9	23
106	Magnetic spectrometry of high energy deuteron beams from pulsed plasma system. Plasma Physics and Controlled Fusion, 2010, 52, 085007.	0.9	23
107	Neon soft x-ray emission studies from the UNU-ICTP plasma focus operated with longer than optimal anode length. Plasma Sources Science and Technology, 2007, 16, 785-790.	1.3	22
108	SYNTHESIS OF ZIRCONIUM OXYNITRIDE (ZrON) NANOCOMPOSITE FILMS ON ZIRCONIUM SUBSTRATE BY DENSE PLASMA FOCUS DEVICE. International Journal of Modern Physics B, 2008, 22, 3941-3955.	1.0	22

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109	Miniature Plasma Focus Device as a Compact Hard X-Ray Source for Fast Radiography Applications. IEEE Transactions on Plasma Science, 2010, 38, 652-657.	0.6	22
110	Neutron Emission Characteristics of NX-3 Plasma Focus Device: Speed Factor as the Guiding Rule for Yield Optimization. IEEE Transactions on Plasma Science, 2012, 40, 3280-3289.	0.6	22
111	Increasing of Hardness of Titanium Using Energetic Nitrogen Ions from Sahand as a Filippov Type Plasma Focus Facility. Journal of Fusion Energy, 2012, 31, 65-72.	0.5	22
112	Magneto-absorption effects in magnetic-field assisted laser ablation of silicon by UV nanosecond pulses. Applied Physics Letters, 2016, 108, .	1.5	22
113	Damage Study of Irradiated Tungsten using fast focus mode of a 2.2ÂkJ plasma focus. Vacuum, 2017, 144, 14-20.	1.6	22
114	Nickel ferrite embedded polyvinylidene fluoride composite based flexible magneto-electric systems. Ceramics International, 2020, 46, 25873-25880.	2.3	22
115	Order of magnitude enhancement in x-ray yield at low pressure deuterium-krypton admixture operation in miniature plasma focus device. Applied Physics Letters, 2008, 92, .	1.5	21
116	Investigation of plume expansion dynamics and estimation of ablation parameters of laser ablated Fe plasma. Journal Physics D: Applied Physics, 2009, 42, 135504.	1.3	21
117	DLC coating on stainless steel by pulsed methane discharge in repetitive plasma focus. Applied Surface Science, 2014, 303, 187-195.	3.1	21
118	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. Journal of Fusion Energy, 2015, 34, 474-479.	0.5	21
119	Hydrogen sensors based on Pt-loaded WO ₃ sensing layers. Europhysics Letters, 2016, 114, 66002.	0.7	21
120	Electrically Tunable All-PCM Visible Plasmonics. Nano Letters, 2021, 21, 4044-4050.	4.5	21
121	Synthesis of nanostructured multiphase Ti(C,N)/a-C films by a plasma focus device. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2777-2784.	0.6	20
122	Facile high yield synthesis of MgCo2O4 and investigation of its role as anode material for lithium ion batteries. Ceramics International, 2019, 45, 14775-14782.	2.3	20
123	Nanostructuring of FePt thin films by plasma focus device: pulsed ion irradiation dependent phase transition and magnetic properties. Applied Physics A: Materials Science and Processing, 2009, 96, 1027-1033.	1.1	19
124	Self-organized transformation to polyaniline nanowires by pulsed energetic electron irradiation in a plasma focus device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1962-1966.	0.9	18
125	Neutron and high energy deuteron anisotropy investigations in plasma focus device. Physics of Plasmas, 2009, 16, 053301.	0.7	18
126	Pulsed ion beam-assisted carburizing of titanium in methane discharge. Chinese Physics B, 2010, 19, 012801-10.	0.7	18

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127	Simultaneous Immobilization and Conversion of Polysulfides on Co₃O₄â€“CoN Heterostructured Mediators toward High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 2570-2578.	2.5	18
128	Realization of enhancement in time averaged neutron yield by using repetitive miniature plasma focus device as pulsed neutron source. Journal Physics D: Applied Physics, 2009, 42, 235203.	1.3	17
129	Current Sheath Dynamics and its Evolution Studies in Sahand Filippov Type Plasma Focus. Journal of Fusion Energy, 2009, 28, 371-376.	0.5	17
130	Backward high energy ion beams from plasma focus. Physics of Plasmas, 2009, 16, .	0.7	17
131	Role of charge particles irradiation on the deposition of AlN films using plasma focus device. Journal of Crystal Growth, 2011, 317, 98-103.	0.7	17
132	Effects of fusion relevant transient energetic radiation, plasma and thermal load on PLANSEE double forged tungsten samples in a low-energy plasma focus device. Applied Surface Science, 2018, 443, 311-320.	3.1	17
133	Backward plume deposition as a novel technique for high deposition rate Fe nanoclusters synthesis. Nanotechnology, 2007, 18, 115617.	1.3	15
134	Magnetic trapping induced low temperature phase transition from fcc to fct in pulsed laser deposition of FePt:Al2O3 nanocomposite thin films. Applied Physics Letters, 2007, 91, 063120.	1.5	15
135	Investigation of impurity phase formation for (ZnO)1â^'x(TMO)x bulk samples formed by ball milling. Applied Surface Science, 2009, 255, 4814-4820.	3.1	15
136	Nanostructured magnetic CoPt thin films synthesis using dense plasma focus device operating at sub-kilojoule range. Journal Physics D: Applied Physics, 2009, 42, 175001.	1.3	15
137	Neutron production with mixture of deuterium and krypton in Sahand Filippov type plasma focus facility. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3002-3006.	0.9	15
138	SXR Measurements in INTI PF Operated in Neon to Identify Typical (Normal N) Profile for Shots With Good Yield. IEEE Transactions on Plasma Science, 2013, 41, 3166-3172.	0.6	15
139	Enhanced Spin Hall Effect in Sâ€implanted Pt. Advanced Quantum Technologies, 2021, 4, .	1.8	15
140	Synthesis of Fe3O4nanostructures by backward plume deposition and influence of ambient gas pressure on their morphology. Journal Physics D: Applied Physics, 2007, 40, 2548-2554.	1.3	14
141	Beryllium neutron activation detector for pulsed DD fusion sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 361-367.	0.7	14
142	Hierarchical vertical graphene nanotube arrays via universal carbon plasma processing strategy: A platform for high-rate performance battery electrodes. Energy Storage Materials, 2019, 18, 462-469.	9.5	14
143	Novel fast-neutron activation counter for high repetition rate measurements. Review of Scientific Instruments, 2006, 77, 10E713.	0.6	13
144	FePtâ€‰:â€‰Al2O3nanocomposite thin films synthesized by magnetic trapping assisted pulsed laser deposition with reduced intergranular exchange coupling. Journal Physics D: Applied Physics, 2008, 41, 095001.	1.3	13

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145	Ferromagnetism in ZnCoO thin films deposited byÂPLD. Applied Physics A: Materials Science and Processing, 2010, 101, 717-722.	1.1	13
146	Magnetic Reynolds Number and Neon Current Sheet Structure in the Axial Phase of a Plasma Focus. Journal of Fusion Energy, 2013, 32, 50-55.	0.5	13
147	Potential medical applications of the plasma focus in the radioisotope production for PET imaging. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2168-2170.	0.9	13
148	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. Surface and Coatings Technology, 2017, 313, 73-81.	2.2	13
149	Fast Faraday cup for fast ion beam TOF measurements in deuterium filled plasma focus device and correlation with Lee model. Physics of Plasmas, 2017, 24, .	0.7	13
150	Tailoring of optical band gap and electrical conductivity in a-axis oriented Ni doped Chromium Oxide thin films. Ceramics International, 2018, 44, 11187-11195.	2.3	13
151	Investigation of MnCo2O4/MWCNT composite as anode material for lithium ion battery. Ceramics International, 2019, 45, 10619-10625.	2.3	13
152	Nanostructured polycrystalline Ni₃S₂ as electrode material for lithium ion batteries. Materials Research Express, 2020, 7, 015517.	0.8	13
153	Highly dose dependent damping-like spinâ€“orbit torque efficiency in O-implanted Pt. Applied Physics Letters, 2021, 118, .	1.5	13
154	Challenges and Applications to Operando and In Situ TEM Imaging and Spectroscopic Capabilities in a Cryogenic Temperature Range. Accounts of Chemical Research, 2021, 54, 3125-3135.	7.6	13
155	Current sheath dynamics and X-ray emission studies from sequential dense plasma focus device. IEEE Transactions on Plasma Science, 2000, 28, 1263-1270.	0.6	12
156	Study of X-ray lithographic conditions for SU-8 by Fourier transform infrared spectroscopy. Microelectronic Engineering, 2006, 83, 1912-1917.	1.1	12
157	Coded aperture imaging of fusion source in a plasma focus operated with pure D2 and a D2-Kr gas admixture. Applied Physics Letters, 2012, 101, .	1.5	12
158	Selfâ€Organization of a Hybrid Nanostructure consisting of a Nanoneedle and Nanodot. Small, 2012, 8, 2807-2811.	5.2	12
159	Imaging of Plasma Focus Fusion by Proton Coded Aperture Technique. Journal of Fusion Energy, 2012, 31, 234-241.	0.5	12
160	Free standing 3D graphene nano-mesh synthesis by RF plasma CVD using non-synthetic precursor. Materials Research Bulletin, 2015, 71, 61-66.	2.7	12
161	Post-annealing effect on the structural and mechanical properties of multiphase zirconia films deposited by a plasma focus device. Chinese Physics B, 2013, 22, 127306.	0.7	12
162	Study of X-ray emission of dense plasma focus device in the presence of external magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 472-476.	0.9	11

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163	Material ablation and plasma plume expansion study from Fe andÂgraphite targets in Ar gas atmosphere. Applied Physics A: Materials Science and Processing, 2010, 101, 695-699.	1.1	11
164	Effect of arc current on microstructure, texturing and wear behavior of plasma sprayed CaZrO3 coatings. Ceramics International, 2013, 39, 2293-2302.	2.3	11
165	Structural, compositional and hardness properties of hydrogenated amorphous carbon nitride thin films synthesized by dense plasma focus device. Surface and Interface Analysis, 2017, 49, 548-553.	0.8	11
166	Cationic quaternary chalcohalide nanobelts: Hg4In2Q3Cl8 (Q = S, Se, Te). RSC Advances, 2012, 2, 6401.	1.7	10
167	Comparison of sintering condition and radio frequency plasma discharge on the conversion of coal/biomass fly ash into high-temperature thermal energy storage material. Energy Conversion and Management, 2019, 192, 180-187.	4.4	10
168	Enhancement in crystalline quality of LiNbO3 films by slow annealing at low temperatures. Journal of Crystal Growth, 2008, 310, 4205-4208.	0.7	9
169	Impact of laser produced X-rays on the surface of gold. Applied Surface Science, 2008, 254, 7505-7511.	3.1	9
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