

Abdul Qayyum

List of Publications by Year in descending order

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53
papers

983
citations

471061

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h-index

454577

30
g-index

53
all docs

53
docs citations

53
times ranked

730
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Optical emission spectroscopy of Ar-N ₂ mixture plasma. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 107, 361-371. | 1.1 | 88 |
| 2 | Nitridation of zirconium using energetic ions from plasma focus device. Thin Solid Films, 2008, 516, 8255-8263. | 0.8 | 86 |
| 3 | Synthesis of nanocrystalline multiphase titanium oxycarbide (TiC _x O _y) thin films by UNU/ICTP and NX2 plasma focus devices. Applied Physics A: Materials Science and Processing, 2008, 90, 669-677. | 1.1 | 66 |
| 4 | Optical Emission Spectroscopy of Abnormal Glow Region in Nitrogen Plasma. Plasma Chemistry and Plasma Processing, 2005, 25, 551-564. | 1.1 | 65 |
| 5 | Diagnostics of nitrogen plasma by trace rare-gas optical emission spectroscopy. Journal of Applied Physics, 2005, 98, 103303. | 1.1 | 61 |
| 6 | Nitriding of titanium by using an ion beam delivered by a plasma focus. Journal Physics D: Applied Physics, 2007, 40, 769-777. | 1.3 | 60 |
| 7 | Effects of helium gas mixing on the production of active species in nitrogen plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 499-503. | 0.9 | 42 |
| 8 | Diagnostic of 13.56 MHz RF sustained Ar-N ₂ plasma by optical emission spectroscopy. EPJ Applied Physics, 2009, 45, 11002. | 0.3 | 41 |
| 9 | Surface modification of AlFe _{1.8} Zn _{0.8} alloy by using dense plasma focus. Vacuum, 2006, 81, 291-298. | 1.6 | 38 |
| 10 | Time-resolved measurement of plasma parameters by means of triple probe. Review of Scientific Instruments, 2013, 84, 123502. | 0.6 | 36 |
| 11 | Deposition of diamond-like carbon film using dense plasma focus. Materials Chemistry and Physics, 2007, 103, 235-240. | 2.0 | 35 |
| 12 | Dense plasma focus ion-based titanium nitride coating on titanium. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1911-1917. | 0.6 | 32 |
| 13 | Langmuir probe characterization of nitrogen plasma for surface nitriding of AISI-4140 steel. Journal of Materials Processing Technology, 2008, 199, 363-368. | 3.1 | 28 |
| 14 | Characterization of Argon Plasma by Use of Optical Emission Spectroscopy and Langmuir Probe Measurements. International Journal of Modern Physics B, 2003, 17, 2749-2759. | 1.0 | 24 |
| 15 | DLC coating on stainless steel by pulsed methane discharge in repetitive plasma focus. Applied Surface Science, 2014, 303, 187-195. | 3.1 | 21 |
| 16 | Spectroscopic optimization of abnormal glow conditions for plasma ion nitriding. EPJ Applied Physics, 2005, 32, 45-52. | 0.3 | 18 |
| 17 | Pulsed ion beam-assisted carburizing of titanium in methane discharge. Chinese Physics B, 2010, 19, 012801-10. | 0.7 | 18 |
| 18 | Plasma nitriding of aluminium in a pulsed dc glow discharge of nitrogen. EPJ Applied Physics, 2010, 49, 21001. | 0.3 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Effect of helium mixing on excitation temperature and nitrogen dissociation in inductively coupled plasma. <i>Current Applied Physics</i> , 2013, 13, 969-974. | 1.1 | 17 |
| 20 | Hydrogen Balmer- \hat{I}^2 and Balmer- \hat{I}^3 emission profiles in an abnormal glow region of hydrogen plasma. <i>Vacuum</i> , 2006, 80, 574-580. | 1.6 | 15 |
| 21 | SYMMETRIC AND ASYMMETRIC DOUBLE LANGMUIR PROBES CHARACTERIZATION OF RADIO FREQUENCY INDUCTIVELY COUPLED NITROGEN PLASMA. <i>Progress in Electromagnetics Research</i> , 2011, 115, 207-221. | 1.6 | 14 |
| 22 | Co-deposition of titanium and iron nitrides on SS-321 by using plasma focus. <i>Radiation Effects and Defects in Solids</i> , 2006, 161, 121-129. | 0.4 | 13 |
| 23 | Deposition of Diamond-like Carbon Films using Graphite Sputtering in Neon Dense Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2007, 27, 127-139. | 1.1 | 13 |
| 24 | Triple-probe Diagnostic Measurements in Plasma of GLAST Spherical Tokamak. <i>Journal of Fusion Energy</i> , 2016, 35, 205-213. | 0.5 | 13 |
| 25 | Spectroscopic evaluation of vibrational temperature and electron density in reduced pressure radio frequency nitrogen plasma. <i>SN Applied Sciences</i> , 2021, 3, 1. | 1.5 | 12 |
| 26 | Initial Plasma Formation in the GLAST-II Spherical Tokamak. <i>Journal of Fusion Energy</i> , 2016, 35, 529-537. | 0.5 | 11 |
| 27 | Glow Discharge Plasma Nitriding of AISI 304 Stainless Steel. <i>Plasma Science and Technology</i> , 2007, 9, 463-468. | 0.7 | 9 |
| 28 | Optical emission spectroscopy of the active species in nitrogen plasma. <i>Plasma Devices and Operations</i> , 2006, 14, 61-70. | 0.6 | 8 |
| 29 | Triple Probe Measurements in Transient Plasma of Pulsed Capacitive Discharge. <i>Journal of Fusion Energy</i> , 2015, 34, 405-410. | 0.5 | 8 |
| 30 | A photodiode array and Langmuir probe for characterizing plasma in GLAST-III tokamak device. Measurement: <i>Journal of the International Measurement Confederation</i> , 2018, 125, 56-62. | 2.5 | 8 |
| 31 | Optical actinometric measurements of nitrogen impurity in Ar/He microwave discharge during wall cleaning of MT-I spherical tokamak. <i>Vacuum</i> , 2020, 182, 109672. | 1.6 | 8 |
| 32 | Deposition of titanium nitride on AISI-304 in a plasma focus environment. <i>EPJ Applied Physics</i> , 2008, 42, 145-151. | 0.3 | 6 |
| 33 | EFFECT OF PLASMA OXIDE SURFACE COATING OF ELECTRODES ON IMPURITY LEVEL AND PLASMA PARAMETERS. <i>International Journal of Modern Physics B</i> , 2004, 18, 1687-1696. | 1.0 | 5 |
| 34 | Optical actinometry of the N-atom density in nitrogen plasma. <i>Plasma Devices and Operations</i> , 2007, 15, 87-93. | 0.6 | 5 |
| 35 | Time function triple Langmuir probe measurements in low frequency pulsed DC discharge plasma. <i>High Energy Chemistry</i> , 2015, 49, 286-293. | 0.2 | 5 |
| 36 | Electrical and optical measurements in the early hydrogen discharge of GLAST-III. <i>Plasma Science and Technology</i> , 2017, 19, 085103. | 0.7 | 5 |

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|----|---|-----|-----------|
| 37 | Optical Emission and Langmuir Probe Diagnostic Measurements in DC Electrode Pulse Discharge in Nitrogen. High Temperature, 2019, 57, 821-831. | 0.1 | 4 |
| 38 | Dense plasma focus-assisted nitriding of AISI-304. Radiation Effects and Defects in Solids, 2008, 163, 729-736. | 0.4 | 3 |
| 39 | Nitrogen dissociation and parametric study in a magnetic pole enhanced inductively coupled Ar-N ₂ plasma (MaPE-ICP). EPJ Applied Physics, 2013, 62, 30801. | 0.3 | 3 |
| 40 | Structural and Mechanical Properties of Radiofrequency Ar-N ₂ Plasma Nitrided Aluminium. Materials Research, 2015, 18, 353-359. | 0.6 | 3 |
| 41 | Start-Up Studies of GLAST-III Spherical Tokamak in the Presence of Poloidal Field. IEEE Transactions on Plasma Science, 2019, 47, 4729-4737. | 0.6 | 3 |
| 42 | Active screen plasma nitriding of Al-Si eutectic alloy and evaluation of compound coatings. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 1.1 | 3 |
| 43 | Measurement of the plasma electron density and temperature from Stark-broadened H ¹² and H ¹³ emission profiles. Plasma Devices and Operations, 2006, 14, 99-109. | 0.6 | 2 |
| 44 | Vibrational Distribution of N ₂ (C, $\hat{1}\frac{1}{2}$) State in a Pulsed-DC Generated N ₂ -Ar Glow Discharge. Spectroscopy Letters, 2010, 43, 259-265. | 0.5 | 2 |
| 45 | Correlation of Neutron and X-ray Emission from Plasma Focus with Pre-ionization. Journal of Fusion Energy, 2014, 33, 720-725. | 0.5 | 2 |
| 46 | Swept Langmuir probe investigation of a time varying DC discharge. SN Applied Sciences, 2021, 3, 1. | 1.5 | 2 |
| 47 | Microwave-assisted pre-ionization experiments on GLAST-III. Plasma Science and Technology, 0, , . | 0.7 | 2 |
| 48 | Reply to comment on "Diagnostics of 13.56 MHz RF sustained Ar-N ₂ plasma by optical emission spectroscopy" by N. Sadeghi and F.J. Gordillo-Vazquez. EPJ Applied Physics, 2009, 47, 11002. | 0.3 | 1 |
| 49 | Plasma measurements in pulse discharge with resistively heated emissive probe. High Temperature, 2016, 54, 802-807. | 0.1 | 1 |
| 50 | Temporal Profiling of Electron Temperatures Using the H ¹² -H ¹² Line Emission and Triple Langmuir Probe Array in the Pre-Ionization Discharge of the MT-I Spherical Tokamak. Fusion Science and Technology, 2020, 76, 947-956. | 0.6 | 1 |
| 51 | Symmetric tungsten triple probe diagnostic for time resolved measurements in plasma discharge. International Journal of Applied Electromagnetics and Mechanics, 2015, 49, 289-298. | 0.3 | 0 |
| 52 | Development of magnetic diagnostics for Glass Spherical Tokamak (GLAST). Plasma Research Express, 2020, 2, 035004. | 0.4 | 0 |
| 53 | Time-resolved probe measurements and sequential imaging of the pre-ionized hydrogen plasma zones in GLAST-III tokamak. International Journal of Hydrogen Energy, 2022, , . | 3.8 | 0 |