

Utpal Deka

List of Publications by Year in descending order

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27
papers

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citations

1163117

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27
times ranked

235
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical, bonding network and electrical properties of reduced graphene oxide-Fe ₂ O ₃ nanocomposite for supercapacitor electrodes applications. Journal of Alloys and Compounds, 2019, 792, 250-259.	5.5	59
2	Experimental investigation into the effect of adhesion properties of PEEK modified by atmospheric pressure plasma and low pressure plasma. Journal of Applied Polymer Science, 2010, 118, 173-179.	2.6	44
3	Capacitive and Sensing Responses of Biomass Derived Silver Decorated Graphene. Scientific Reports, 2019, 9, 19725.	3.3	27
4	Bandgap engineering of PEDOT:PSS/rGO a hole transport layer for SiNWs hybrid solar cells. Bulletin of Materials Science, 2021, 44, 1.	1.7	24
5	Electron Inertial Delay Effect on Acoustic Soliton Behavior in Transonic Region. Physica Scripta, 2004, 69, 303-312.	2.5	15
6	Graphical analysis of electron inertia induced acoustic instability. Physics of Plasmas, 2005, 12, 032105.	1.9	13
7	Effect of electron inertial delay on Debye sheath formation. Brazilian Journal of Physics, 2010, 40, .	1.4	13
8	Electrical, thermal and magnetic studies on 7.5 MeV electron beam irradiated PrCoO ₃ polycrystalline samples. Physica B: Condensed Matter, 2018, 540, 26-32.	2.7	10
9	Response to "Comment on 'Graphical analysis of electron inertia induced acoustic instability'" [Phys. Plasmas 13, 104701 (2006)]. Physics of Plasmas, 2006, 13, 104702.	1.9	7
10	Effect of high energy electron beam irradiation on the structural properties, electrical resistivity and thermopower of La _{0.5} Sr _{0.5} MnO ₃ manganites. Physica B: Condensed Matter, 2020, 585, 412119.	2.7	7
11	Dark and photocurrent response of porous Si/GO-PANI and Si/rGO-PANI heterojunctions for photovoltaics applications. Materials Today: Proceedings, 2021, 39, 1848-1851.	1.8	7
12	Multi-scale dynamics in externally excited glow discharge plasma. Physica Scripta, 2015, 90, 125602.	2.5	6
13	Sheath Equivalent Electrical Circuit Model for Equilibrium Child Sheath Description. Physica Scripta, 2004, 69, 108-114.	2.5	5
14	Investigation of the effect of electron beam irradiation on the structural and transport properties of half doped Nd _{0.5} Sr _{0.5} MnO ₃ manganites. Physica B: Condensed Matter, 2019, 560, 220-227.	2.7	5
15	Sheath Equivalent Electrical Circuit Model for Transient Sheath Dynamics. Japanese Journal of Applied Physics, 2004, 43, 2704-2710.	1.5	4
16	Effects of low pressure plasma irradiation on electrical resistivity of perovskite oxide Eu _{1-x} Sr _x MnO ₃ . IOP Conference Series: Materials Science and Engineering, 2018, 377, 012173.	0.6	3
17	Plasma augmented structural and electrical properties of half doped neodymium strontium manganites. Physica Scripta, 2020, 95, 115810.	2.5	3
18	Morphological and Electrical Characterization of SiNWs Synthesized by Electroless Metal Assisted Chemical Etching Method. Journal of Nano- and Electronic Physics, 2021, 13, 02003-1-02003-4.	0.5	2

#	ARTICLE	IF	CITATIONS
19	Comprehensive Review on Various Instabilities in Semiconductor Quantum Plasma. Brazilian Journal of Physics, 2021, 51, 1944-1955.	1.4	2
20	Propagation of ion-acoustic wave in the presheath region of a plasma sheath system. Physica Scripta, 2006, 73, 87-97.	2.5	1
21	Stability analysis of the polytropic solar wind. Canadian Journal of Physics, 2014, 92, 1419-1424.	1.1	1
22	Synthesis and characterization of graphene sheet decorated with silver nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	1
23	Fabrication and characterization of SiNWs/polymer- reduced graphene oxide nanocomposite heterojunction for photovoltaic device applications. Materials Today: Proceedings, 2021, 39, 1852-1855.	1.8	1
24	Low-pressure air plasma induced modification of structural and electrical properties of $Gd_{1-x}Sr_xMnO_3$ manganites. Radiation Effects and Defects in Solids, 2021, 176, 1092-1106.	1.2	1
25	Electrical Properties of Plasma Irradiated Silicon Nanowires for Photovoltaics Applications. , 2018, , .		0
26	Estimation of crystallite size and strain of electron beam irradiated samples of $Nd_{0.5}Sr_{0.5}MnO_3$ manganites through XRD analysis. AIP Conference Proceedings, 2020, , .	0.4	0
27	Effect of plasma sheath with secondary electron emission on the Ti N chemical bond formation in titanium dental implantation. Materials Today: Proceedings, 2022, , .	1.8	0