

# Utpal Deka

## List of Publications by Year in descending order

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27  
papers

261  
citations

1163117

8  
h-index

940533

16  
g-index

27  
all docs

27  
docs citations

27  
times ranked

235  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Comprehensive Review on Various Instabilities in Semiconductor Quantum Plasma. Brazilian Journal of Physics, 2021, 51, 1944-1955.	1.4	2
7	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
8	Synthesis and characterization of graphene sheet decorated with silver nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	1
9	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
10	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
11	Plasma augmented structural and electrical properties of half doped neodymium strontium manganites. Physica Scripta, 2020, 95, 115810.	2.5	3
12	Electrochemical, bonding network and electrical properties of reduced graphene oxide- $Fe_2O_3$ nanocomposite for supercapacitor electrodes applications. Journal of Alloys and Compounds, 2019, 792, 250-259.	5.5	59
13	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
14	Capacitive and Sensing Responses of Biomass Derived Silver Decorated Graphene. Scientific Reports, 2019, 9, 19725.	3.3	27
15	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
16	Electrical Properties of Plasma Irradiated Silicon Nanowires for Photovoltaics Applications. , 2018, , .		0
17	Effects of low pressure plasma irradiation on electrical resistivity of perovskite oxide $Eu_{1-x}Sr_xMnO_3$ . IOP Conference Series: Materials Science and Engineering, 2018, 377, 012173.	0.6	3
18	Multi-scale dynamics in externally excited glow discharge plasma. Physica Scripta, 2015, 90, 125602.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Stability analysis of the polytropic solar wind. Canadian Journal of Physics, 2014, 92, 1419-1424.	1.1	1
20	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
21	Effect of electron inertial delay on Debye sheath formation. Brazilian Journal of Physics, 2010, 40, .	1.4	13
22	Propagation of ion-acoustic wave in the presheath region of a plasma sheath system. Physica Scripta, 2006, 73, 87-97.	2.5	1
23	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
24	Graphical analysis of electron inertia induced acoustic instability. Physics of Plasmas, 2005, 12, 032105.	1.9	13
25	Electron Inertial Delay Effect on Acoustic Soliton Behavior in Transonic Region. Physica Scripta, 2004, 69, 303-312.	2.5	15
26	Sheath Equivalent Electrical Circuit Model for Equilibrium Child Sheath Description. Physica Scripta, 2004, 69, 108-114.	2.5	5
27	Sheath Equivalent Electrical Circuit Model for Transient Sheath Dynamics. Japanese Journal of Applied Physics, 2004, 43, 2704-2710.	1.5	4