

# Muhammad Irfan

## List of Publications by Year in descending order

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17  
papers

160  
citations

1307594

7  
h-index

1125743

13  
g-index

18  
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18  
docs citations

18  
times ranked

121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Fractional Klein-Gordon Equation with Solitary/Shock Waves Solutions. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-15.	1.1	36
2	Three dimensional ion-acoustic rogons in quantized anisotropic magnetoplasmas with trapped/untrapped electrons. <i>Chaos</i> , 2019, 29, 103133.	2.5	18
3	Investigation of Hirota equation: Modified double Laplace decomposition method. <i>Physica Scripta</i> , 2021, 96, 104006.	2.5	17
4	Suppression of Superconductivity Due to Enhanced Co Doping in $\text{Cu}_{0.5}\text{Tl}_{0.5}\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{Co}_y\text{O}_{10}$ Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 1521-1526.	1.8	15
5	Dust-acoustic solitary and rogue waves in a Thomas-Fermi degenerate dusty plasma. <i>Astrophysics and Space Science</i> , 2014, 353, 515-523.	1.4	15
6	Solitary waves in a degenerate relativistic plasma with ionic pressure anisotropy and electron trapping effects. <i>Physics of Plasmas</i> , 2017, 24, 052108.	1.9	15
7	Enhanced three-dimensional excess conductivity in Be-doped $\text{Cu}_{0.5}\text{Tl}_{0.5}\text{Ba}_2\text{Ca}_3\text{Be}_x\text{Cu}_4\text{O}_{12}$ ( $x=0.5, 0.75, 1.0, 1.25, 1.5$ ) superconductors. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	7
8	Dust-ion-acoustic envelopes and modulational instability with relativistic degenerate electrons. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
9	Arbitrary Amplitude Oblique Electrostatic Solitary Waves in a Degenerate Cold Dusty Magnetoplasma. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 4151-4158.	1.3	7
10	Modulational instability and ion-acoustic envelopes in dense plasmas with trapped/untrapped electrons. <i>Physics of Plasmas</i> , 2019, 26, 032101.	1.9	6
11	Fluctuation-Induced Conductivity of $\text{Cu}_{0.5}\text{Tl}_{0.5}\text{Ba}_2\text{Ca}_2\text{Cu}_2\text{M}_1\text{O}_{10}$ ( $\text{M}=\text{Si, Sn, Ge}$ ) Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009, 22, 769-774.	1.8	5
12	Magnetoacoustic solitons and shocks in dense astrophysical plasmas with relativistic degenerate electrons. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	4
13	Modulationally stable envelope solitons in astrophysical magnetoplasmas with degenerate relativistic electrons. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	3
14	Ion-acoustic dipolar vortex in degenerate magnetoplasma with ions/electrons thermal corrections. <i>Chaos</i> , 2020, 30, 073142.	2.5	2
15	Phase control of pulses distortions through induced circular birefringent chiral atomic medium. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	2
16	Thermally activated dissipation mechanism in Sn doped $\text{CuTi-1223}$ superconductors. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 1308-1312.	2.2	1
17	Complex conductivity dependent surface plasmon polaritons at the interface of metal and silver silica nanocomposites. <i>International Journal of Quantum Chemistry</i> , 0, , e26831.	2.0	0