# Mehran Shahmansouri

List of Publications by Year
in descending order



| 73 | 909 | 471061 17 | 580395 25 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 73 | 73 | 73 | 317 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Attenuated Surface Dual Modes on Plasma Slab: Landau Damping. IEEE Transactions on Plasma Science, 2022, 50, 1732-1738. | 0.6 | 0 |
| 2 | Characteristics of a Symmetric Mid-infrared Graphene Dielectric Hybrid Plasmonic Waveguide with Ultra-deep Subwavelength Confinement. Plasmonics, 2022, 17, 1819-1829. | 1.8 | 5 |
| 3 | Characteristics of Quantum Plasmonic Waves Guided by a Symmetric Metalâ€“Gapâ€“Dielectric Nano-system. Plasmonics, 2021, 16, 1349-1355. | 1.8 | 3 |
| 4 | Space charge waves in plasma waveguides with arbitrary electron degeneracy. Physica Scripta, 2020, 95, 015605. | 1.2 | 4 |
| 5 | Effective mass dependence of the gyrotropic nihility in a BaM/6H-SiC multilayer structure. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 1.1 | 3 |
| 6 | Effect of plasma-induced oxidative stress on the glycolysis pathway of Escherichia coli. Computers in Biology and Medicine, 2020, 127, 104064. | 3.9 | 4 |
| 7 | Theoretical study of surface waves in a magnetized conductor-gap-dielectric nano-structure. Physica Scripta, 2020, 95, 085606. | 1.2 | 6 |
| 8 | Boundary graphene layer effect on surface plasmon oscillations in a quantum plasma half-space. Communications in Theoretical Physics, 2020, 72, 045501. | 1.1 | 6 |
| 9 | Anisotropic temperature effects on Landau damping in Kappaâ€“Maxwellian astrophysical plasmas. Astroparticle Physics, 2020, 120, 102449. | 1.9 | 4 |
| 10 | Potential Distribution in a Strongly Coupled Dusty Magnetoplasma. IEEE Transactions on Plasma Science, 2019, 47, 5108-5112. | 0.6 | 2 |
| 11 | Characteristics of Thomson scattering in degenerate quantum plasmas: Quantum-recoil effect. Europhysics Letters, 2019, 127, 35001. | 0.7 | 4 |
| 12 | Evolution of Dissipative Low-Frequency Rogue Waves in Superthermal Dusty Plasmas. IEEE Transactions on Plasma Science, 2019, 47, 4378-4384. | 0.6 | 15 |
| 13 | Characteristics of lower-hybrid surface waves. Europhysics Letters, 2019, 125, 65001. | 0.7 | 2 |
| 14 | Polarized Debye Sheath in Degenerate Plasmas. Communications in Theoretical Physics, 2019, 71, 1341. | 1.1 | 2 |
| 15 | Investigation of dielectric response function in strongly coupled magnetized dusty plasmas. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |
| 16 | Surface plasmon oscillations in a semi-bounded semiconductor plasma. Plasma Science and Technology, 2018, 20, 025001. | 0.7 | 5 |
| 17 | Kinetic theory of electrostatic surface waves in a dusty plasma slab with electrons/ions featuring the Tsallis distribution. Physics of Plasmas, 2018, 25, . | 0.7 | 11 |
| 18 | On the dielectric response function and dispersion relation in strongly coupled magnetized dusty plasmas. Chinese Physics B, 2018, 27, 105206. | 0.7 | 5 |

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|---|---|---|---|
| 19 | Surface plasmons in a semi-bounded massless Dirac plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2133-2136. | 0.9 | 16 |
| 20 | Breather structures in degenerate relativistic non-extensive plasma. Journal of Plasma Physics, 2017, 83, . | 0.7 | 14 |
| 21 | Exchange interaction effects on low frequency surface waves in a quantum plasma slab. Physics of Plasmas, 2017, 24, 054505. | 0.7 | 13 |
| 22 | Quantum electrostatic surface waves in a hybrid plasma waveguide: Effect of nano-sized slab. Physics of Plasmas, 2017, 24, . | 0.7 | 14 |
| 23 | Modified Potential Around a Moving Test Charge in Strongly Coupled Dusty Plasma. Communications in Theoretical Physics, 2017, 68, 111. | 1.1 | 3 |
| 24 | Self-similar expansion of adiabatic electronegative dusty plasma. Journal of Plasma Physics, 2017, 83, . | 0.7 | 3 |
| 25 | Propagational characteristics in a warm hybrid plasmonic waveguide. Physics of Plasmas, 2017, 24, 122102. | 0.7 | 4 |
| 26 | Elliptically polarized electromagnetic waves in a magnetized quantum electron-positron plasma with effects of exchange-correlation. Physics of Plasmas, 2016, 23, 072105. | 0.7 | 18 |
| 27 | Modulation and nonlinear evolution of multi-dimensional Langmuir wave envelopes in a relativistic plasma. Physics of Plasmas, 2016, 23, 122112. | 0.7 | 2 |
| 28 | Weakly dissipative dust-ion acoustic wave modulation. Journal of Plasma Physics, 2016, 82, . | 0.7 | 7 |
| 29 | Solitary and double-layer structures in quantum bi-ion plasma. Iranian Physical Journal, 2016, 10, 139-148. | 1.2 | 3 |
| 30 | Generalized polarization force acting on charge fluctuating dust grains and its effects on propagation of dust-acoustic waves in a dusty plasma. European Physical Journal Plus, 2016, 131, 1. | 1.2 | 17 |
| 31 | The exchange-correlation effects on surface plasmon oscillations in semi-bounded quantum plasma. Physics of Plasmas, 2015, 22, . | 0.7 | 38 |
| 32 | The polarized Debye sheath effect on Kadomtsev-Petviashvili electrostatic structures in strongly coupled dusty plasma. Physics of Plasmas, 2015, 22, . | 0.7 | 20 |
| 33 | Effects of strong electrostatic interaction on multi-dimensional instability of dust-acoustic solitary waves in a magnetized strongly coupled dusty plasma. Physics of Plasmas, 2015, 22, . | 0.7 | 7 |
| 34 | Multi-ion Double Layers in a Magnetized Plasma. Communications in Theoretical Physics, 2015, 64, 555-564. | 1.1 | 6 |
| 35 | Transverse perturbation on three-dimensional ion acoustic waves in electronâ€“positronâ€“ion plasma with high-energy tail electron and positron distribution. Iranian Physical Journal, 2014, 8, 189-201. | 1.2 | 14 |
| 36 | Effects of obliqueness and strong electrostatic interaction on linear and nonlinear propagation of dust-acoustic waves in a magnetized strongly coupled dusty plasma. Physics of Plasmas, 2014, 21, 033704. | 0.7 | 11 |

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| 37 | Dust-acoustic shock waves in a magnetized non-thermal dusty plasma. Journal of Plasma Physics, 2014, 80, 593-606. | 0.7 | 16 |
| 38 | Dynamics of dust-ion acoustic shock waves in a magnetized charge variable superthermal complex plasma. Physica Scripta, 2014, 89, 075604. | 1.2 | 8 |
| 39 | Ion acoustic solitary waves in bi-ion plasma with superthermal electrons. Astrophysics and Space Science, 2014, 349, 781-787. | 0.5 | 15 |
| 40 | Propagation properties of ion acoustic waves in a magnetized superthermal bi-ion plasma. Astrophysics and Space Science, 2014, 350, 623-630. | 0.5 | 15 |
| 41 | Formation of obliquely propagating dust-ion-acoustic shock waves due to dust charge fluctuation in magnetized nonthermal dusty plasma. Astrophysics and Space Science, 2014, 350, 531-539. | 0.5 | 4 |
| 42 | Shock structures in dusty plasma in the presence of strong electrostatic interaction. Astrophysics and Space Science, 2014, 351, 197-205. | 0.5 | 13 |
| 43 | Modulational instability of ion-acoustic waves in a plasma with two-temperature kappa-distributed electrons. Astrophysics and Space Science, 2014, 352, 571-578. | 0.5 | 23 |
| 44 | Effects of superthermal electrons and negatively (positively) charged dust grains on dust-ion acoustic wave modulation. European Physical Journal Plus, 2014, 129, 1. | 1.2 | 3 |
| 45 | Large Amplitude Dust Ion Acoustic Solitons and Double Layers in Dusty Plasmas with Ion Streaming and High-Energy Tail Electron Distribution. Communications in Theoretical Physics, 2014, 61, 377-384. | 1.1 | 12 |
| 46 | Arbitrary amplitude electron acoustic waves in a magnetized nonextensive plasma. Astrophysics and Space Science, 2013, 347, 305-313. | 0.5 | 16 |
| 47 | Electrostatic wave structures in a magnetized superthermal plasma with two-temperature electrons. Physics of Plasmas, 2013, 20, 082130. | 0.7 | 34 |
| 48 | Oblique ion acoustic shock waves in a magnetized plasma. Physics of Plasmas, 2013, 20, . | 0.7 | 22 |
| 49 | Dust acoustic shock waves in suprathermal dusty plasma in the presence of ion streaming with dust charge fluctuations. Astrophysics and Space Science, 2013, 343, 251-256. | 0.5 | 9 |
| 50 | Dust acoustic shock waves in a suprathermal dusty plasma with dust charge fluctuation. Astrophysics and Space Science, 2013, 343, 257-263. | 0.5 | 16 |
| 51 | Arbitrary amplitude dust acoustic waves in a nonextensive dusty plasma. Astrophysics and Space Science, 2013, 344, 99-104. | 0.5 | 24 |
| 52 | Influence of suprathermality on the obliquely propagating dust-acoustic solitary waves in a magnetized dusty plasma. Astrophysics and Space Science, 2013, 344, 153-160. | 0.5 | 14 |
| 53 | Three dimensional dust-acoustic solitary waves in an electron depleted dusty plasma with two-superthermal ion-temperature. Physics of Plasmas, 2013, 20, . | 0.7 | 31 |
| 54 | Effect of electron nonextensivity on oblique propagation of arbitrary ion acoustic waves in a magnetized plasma. Astrophysics and Space Science, 2013, 344, 463-470. | 0.5 | 40 |

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| 55 | Dust acoustic solitary waves in a magnetized electron depleted superthermal dusty plasma. Physics of Plasmas, 2013, 20, 033704. | 0.7 | 31 |
| 56 | Ion acoustic solitary waves in nonplanar plasma with two-temperature kappa distributed electrons. Indian Journal of Physics, 2013, 87, 711-716. | 0.9 | 16 |
| 57 | Nonextensive dust acoustic shock structures in complex plasmas. Astrophysics and Space Science, 2013, 346, 165-170. | 0.5 | 25 |
| 58 | Dust-acoustic solitons in quantum plasma with kappa-distributed ions. Pramana - Journal of Physics, 2013, 80, 295-306. | 0.9 | 6 |
| 59 | Spherical Kadomtsevâ€"Petviashvili Solitons in a Suprathermal Complex Plasma. Communications in Theoretical Physics, 2013, 60, 227-232. | 1.1 | 6 |
| 60 | Dynamics of ion acoustic double layers in a magnetized two-population electrons plasma. Physics of Plasmas, 2013, 20, 102104. | 0.7 | 7 |
| 61 | Nonlinear instabilities in two-dimensional hexagonal dust-lattice formed by paramagnetic particles. Physics of Plasmas, 2012, 19, 033704. | 0.7 | 5 |
| 62 | Arbitrary amplitude dust ion acoustic solitary waves in a magnetized suprathermal dusty plasma. Physics of Plasmas, 2012, 19, . | 0.7 | 27 |
| 63 | Spherical electron acoustic solitary waves in plasma with suprathermal electrons. Astrophysics and Space Science, 2012, 342, 401-406. | 0.5 | 22 |
| 64 | Suprathermality Effects on Propagation Properties of Ion Acoustic Waves. Chinese Physics Letters, 2012, 29, 105201. | 1.3 | 30 |
| 65 | Gradient effects on dust lattice waves in paramagnetic dusty plasma crystals. Journal of Theoretical and Applied Physics, 2012, 6, 2. | 1.4 | 21 |
| 66 | Nonlinear theory of longitudinal dust-lattice wave in a magnetic dusty plasma crystal. Journal of Plasma Physics, 2012, 78, 259-263. | 0.7 | 24 |
| 67 | Dust acoustic localized structures in an electron depleted dusty plasma with two-suprathermal ion-temperature. Astrophysics and Space Science, 2012, 342, 87-92. | 0.5 | 38 |
| 68 | Modulated transverse off-plane dust-lattice wave packets in hexagonal two-dimensional dusty plasma crystals. Physics of Plasmas, 2009, 16, 053706. | 0.7 | 11 |
| 69 | New coupling of dust-lattice modes with an external magnetic field. Physica Scripta, 2009, 79, 065501. | 1.2 | 7 |
| 70 | Dust grain oscillations in two-dimensional hexagonal dusty plasma crystals in the presence of a magnetic field. Physics of Plasmas, 2009, 16, 063703. | 0.7 | 27 |
| 71 | Dust Lattice Waves in Two-Dimensional Hexagonal Dust Crystals with an External Magnetic Field. AIP Conference Proceedings, 2008, , . | 0.3 | 0 |
| 72 | Coupled Dust-Lattice Modes in Magnetized Complex Plasmas. AIP Conference Proceedings, 2008, , . | 0.3 | 0 |

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| 73 | Crystal â€" Like Structure in Two Dimensional Dusty Plasmas. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |