

De Castro, A S

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Comment on "Energy Spectrum of a Dirac Particle with Position-Dependent Mass Under the Influence of the Aharonov-Casher Effect". Brazilian Journal of Physics, 2021, 51, 19-21. | 0.7 | 0 |
| 2 | Spin in a planar relativistic fermion problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 404, 127412. | 0.9 | 0 |
| 3 | Comment on "The relativistic Aharonov-Bohm-Coulomb system with position-dependent mass". Journal of Physics A: Mathematical and Theoretical, 2021, 54, 028001. | 0.7 | 1 |
| 4 | Pure Coulomb tensor interaction in the Dirac equation. Physical Review A, 2019, 99, . | 1.0 | 2 |
| 5 | Proper treatment of scalar and vector exponential potentials in the Klein-Gordon equation: Scattering and bound states. European Physical Journal Plus, 2019, 134, 1. | 1.2 | 6 |
| 6 | Equivalence between the planar Dirac oscillator and a spin-1/2 fermion embedded in a transverse homogeneous magnetic field. Revista Brasileira De Ensino De Fisica, 2019, 41, . | 0.2 | 0 |
| 7 | New solutions of the D -dimensional Klein-Gordon equation via mapping onto the nonrelativistic one-dimensional Morse potential. Annals of Physics, 2017, 378, 88-99. | 1.0 | 8 |
| 8 | Solutions of the three-dimensional radial Dirac equation from the Schrödinger equation with one-dimensional Morse potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2050-2054. | 0.9 | 8 |
| 9 | Relativistic quantum dynamics of scalar bosons under a full vector Coulomb interaction. European Physical Journal C, 2017, 77, 1. | 1.4 | 7 |
| 10 | From the nonrelativistic Morse potential to a unified treatment of a large class of bound-state solutions of a modified D -dimensional Klein-Gordon equation. Astronomische Nachrichten, 2017, 338, 1160-1165. | 0.6 | 2 |
| 11 | Generalizing spin and pseudospin symmetries for relativistic spin 1/2 fermions. Journal of Physics: Conference Series, 2016, 738, 012033. | 0.3 | 3 |
| 12 | A large class of bound-state solutions of the Schrödinger equation via Laplace transform of the confluent hypergeometric equation. Journal of Mathematical Chemistry, 2016, 54, 1287-1295. | 0.7 | 7 |
| 13 | Fermions in a mixed vector-scalar double-step potential via continuous chiral transformation. European Physical Journal Plus, 2016, 131, 1. | 1.2 | 1 |
| 14 | From the generalized Morse potential to a unified treatment of the D -dimensional singular harmonic oscillator and singular Coulomb potentials. Journal of Mathematical Chemistry, 2016, 54, 1783-1791. | 0.7 | 9 |
| 15 | Revisiting the quantum harmonic oscillator via unilateral Fourier transforms. European Journal of Physics, 2016, 37, 015402. | 0.3 | 3 |
| 16 | General spin and pseudospin symmetries of the Dirac equation. Physical Review A, 2015, 92, . | 1.0 | 9 |
| 17 | Fermions embedded in a scalar-vector kink-like smooth potential. Journal of Physics: Conference Series, 2015, 630, 012029. | 0.3 | 1 |
| 18 | Bound States of Spinless Particles in a Short-Range Potential. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 245-249. | 0.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Transmission coefficient and two-fold degenerate discrete spectrum of spin-1 bosons in a double-step potential. <i>International Journal of Modern Physics E</i> , 2015, 24, 1550031. | 0.4 | 2 |
| 20 | Relativistic Coulomb scattering of spinless bosons. <i>Physical Review C</i> , 2015, 91, . | 1.1 | 3 |
| 21 | Pseudospin and spin symmetries in 1+1 dimensions: The case of the Coulomb potential. <i>Annals of Physics</i> , 2015, 356, 83-94. | 1.0 | 10 |
| 22 | Relativistic pseudospin and spin symmetries in physical systems – recent results. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012069. | 0.3 | 7 |
| 23 | O exemplo mais simples do uso do método das imagens. <i>Revista Brasileira De Ensino De Fisica</i> , 2014, 36, . | 0.2 | 0 |
| 24 | Unsuitable use of spin and pseudospin symmetries with a pseudoscalar Cornell potential. <i>Chinese Physics B</i> , 2014, 23, 090301. | 0.7 | 3 |
| 25 | Corroborating the equivalence between the Duffin-Kemmer-Petiau and the Klein-Gordon and Proca equations. <i>Physical Review A</i> , 2014, 90, . | 1.0 | 25 |
| 26 | Scattering and bound states of fermions in the modified Hulthén potential. <i>European Physical Journal Plus</i> , 2014, 129, 1. | 1.2 | 8 |
| 27 | Quasi-exactly-solvable confining solutions for spin-1 and spin-0 bosons in(1+1)-dimensions with a scalar linear potential. <i>Annals of Physics</i> , 2014, 351, 571-578. | 1.0 | 3 |
| 28 | Stationary states of fermions in a sign potential with a mixed vector–scalar coupling. <i>Annals of Physics</i> , 2014, 340, 1-12. | 1.0 | 9 |
| 29 | Scattering and bound states of fermions in a mixed vector–scalar smooth step potential. <i>Annals of Physics</i> , 2014, 346, 164-181. | 1.0 | 9 |
| 30 | Uma breve discussão sobre os possíveis estados ligados para uma classe de potenciais singulares. <i>Revista Brasileira De Ensino De Fisica</i> , 2014, 36, . | 0.2 | 3 |
| 31 | Oscilador harmônico: Uma análise via séries de Fourier. <i>Revista Brasileira De Ensino De Fisica</i> , 2014, 36, . | 0.2 | 0 |
| 32 | Estados ligados em um potencial delta duplo via transformadas seno e cosseno de Fourier. <i>Revista Brasileira De Ensino De Fisica</i> , 2014, 36, . | 0.2 | 1 |
| 33 | Missing solution in a Cornell potential. <i>Annals of Physics</i> , 2013, 338, 278-282. | 1.0 | 10 |
| 34 | Trapping of a particle in a short-range harmonic potential well. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 265-277. | 0.7 | 4 |
| 35 | Spin and pseudospin symmetries of the Dirac equation with confining central potentials. <i>Physical Review C</i> , 2013, 87, . | 1.1 | 37 |
| 36 | A Laplace transform approach to the quantum harmonic oscillator. <i>European Journal of Physics</i> , 2013, 34, 199-204. | 0.3 | 22 |

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|----|--|-----|-----------|
| 37 | O oscilador harmônico singular revisitado. Revista Brasileira De Ensino De Fisica, 2013, 35, . | 0.2 | 4 |
| 38 | An effective singular oscillator for Duffin-Kemmer-Petiau particles with a nonminimal vector coupling: a two-fold degeneracy. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 075302. | 0.7 | 11 |
| 39 | Scattering and bound states of spin-0 particles in a nonminimal vector double-step potential. Canadian Journal of Physics, 2012, 90, 481-486. | 0.4 | 5 |
| 40 | Spin and pseudospin symmetries in the Dirac equation with central Coulomb potentials. Physical Review A, 2012, 86, . | 1.0 | 35 |
| 41 | Potenciais delta revisitados via transformada de Fourier. Revista Brasileira De Ensino De Fisica, 2012, 34, . | 0.2 | 0 |
| 42 | Estados ligados em um potencial delta duplo via transformada de Laplace. Revista Brasileira De Ensino De Fisica, 2012, 34, . | 0.2 | 0 |
| 43 | Bound states of the Duffin-Kemmer-Petiau equation with a mixed minimal-nonminimal vector cusp potential. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 035201. | 0.7 | 23 |
| 44 | Espalhamento e estados ligados em potenciais localizados. Revista Brasileira De Ensino De Fisica, 2011, 33, 4312-4312. | 0.2 | 0 |
| 45 | Spinless bosons embedded in a vector Duffin-Kemmer-Petiau oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2596-2600. | 0.9 | 23 |
| 46 | Effects Due to a Scalar Coupling on Particle-Antiparticle Production in Duffin-Kemmer-Petiau Theory. International Journal of Theoretical Physics, 2010, 49, 10-17. | 0.5 | 21 |
| 47 | Confining solutions of massive spin-0 bosons by a linear nonminimal vector coupling in the Duffin-Kemmer-Petiau theory. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 203-206. | 0.5 | 10 |
| 48 | On the scattering of massive spinless bosons by a nonminimal vector smooth step potential. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 207-210. | 0.5 | 12 |
| 49 | On the nonminimal vector coupling in the Duffin-Kemmer-Petiau theory and the confinement of massive bosons by a linear potential. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 055306. | 0.7 | 47 |
| 50 | Comment on "Wave functions for a Duffin-Kemmer-Petiau particle in a time-dependent potential". [J. Math. Phys. 48, 073515 (2007)]. Journal of Mathematical Physics, 2010, 51, 034101. | 0.5 | 3 |
| 51 | Spin and pseudospin symmetries in the antinucleon spectrum of nuclei. Physical Review C, 2010, 81, . | 1.1 | 53 |
| 52 | On Duffin-Kemmer-Petiau particles with a mixed minimal-nonminimal vector coupling and the nondegenerate bound-states for the one-dimensional inversely linear background. Journal of Mathematical Physics, 2010, 51, 102302. | 0.5 | 7 |
| 53 | Comment on Solutions of the Duffin-Kemmer-Petiau equation for a pseudoscalar potential step in (1+1) dimensions. Canadian Journal of Physics, 2009, 87, 857-859. | 0.4 | 17 |
| 54 | Absence of Klein's paradox for massive bosons coupled by nonminimal vector interactions. Canadian Journal of Physics, 2009, 87, 1185-1189. | 0.4 | 15 |

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|----|---|-----|-----------|
| 55 | Antinucleon spectra in the Dirac equation with scalar and vector Wood-Saxon potentials. , 2009, , . | | 0 |
| 56 | Scattering and bound states of spinless particles in a mixed vector-scalar smooth step potential. Annals of Physics, 2009, 324, 2372-2384. | 1.0 | 12 |
| 57 | Inconsistencies of a purported probability current in the Duffin-Kemmer-Petiau theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5964-5967. | 0.9 | 23 |
| 58 | Bound states of bosons and fermions in a mixed vector-scalar coupling with unequal shapes for the potentials. Physica Scripta, 2008, 77, 045007. | 1.2 | 10 |
| 59 | Estados estacionários de partículas sem spin em potenciais quadrados. Revista Brasileira De Ensino De Fisica, 2008, 30, 2306.1-2306.10. | 0.2 | 1 |
| 60 | UNIFIED TREATMENT OF MIXED VECTOR-SCALAR SCREENED COULOMB POTENTIALS FOR FERMIONS. International Journal of Modern Physics E, 2007, 16, 2998-3001. | 0.4 | 8 |
| 61 | EFFECTS OF A MIXED VECTOR-SCALAR KINK-LIKE POTENTIAL FOR SPINLESS PARTICLES IN TWO-DIMENSIONAL SPACE-TIME. International Journal of Modern Physics A, 2007, 22, 2609-2618. | 0.5 | 8 |
| 62 | RELATIVISTIC EFFECTS OF MIXED VECTOR-SCALAR-PSEUDOSCALAR POTENTIALS FOR FERMIONS IN 1+1 DIMENSIONS. International Journal of Modern Physics E, 2007, 16, 3002-3005. | 0.4 | 24 |
| 63 | Relativistic confinement of neutral fermions with a trigonometric tangent potential. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 263-270. | 0.7 | 16 |
| 64 | Confinement of spin-0 and spin-1/2 particles in a mixed vector-scalar coupling with unequal shapes for the potentials. Physica Scripta, 2007, 75, 170-173. | 1.2 | 11 |
| 65 | Spin and pseudospin symmetries and the equivalent spectra of relativistic spin-1/2 and spin-0 particles. Physical Review C, 2007, 75, . | 1.1 | 42 |
| 66 | Bounded solutions of fermions in the background of mixed vector-scalar Pöschl-Teller-like potentials. Europhysics Letters, 2007, 77, 20009. | 0.7 | 19 |
| 67 | Sobre o limiar para a produção de pares e localização de partículas sem spin. Revista Brasileira De Ensino De Fisica, 2007, 29, 203-208. | 0.2 | 8 |
| 68 | Orthogonality criterion for banishing hydrino states from standard quantum mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 380-383. | 0.9 | 10 |
| 69 | Sobre o limiar para a produção de pares e localização de partículas sem spin. Revista Brasileira De Ensino De Fisica, 2007, 29, . | 0.0 | 1 |
| 70 | Trapping neutral fermions with kink-like potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 379-383. | 0.9 | 31 |
| 71 | Relating pseudospin and spin symmetries through charge conjugation and chiral transformations: The case of the relativistic harmonic oscillator. Physical Review C, 2006, 73, . | 1.1 | 98 |
| 72 | EFFECTS OF A MIXED VECTOR-SCALAR SCREENED COULOMB POTENTIAL FOR SPINLESS PARTICLES. International Journal of Modern Physics A, 2006, 21, 5141-5149. | 0.5 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | THE PEREMPTORY INFLUENCE OF A UNIFORM BACKGROUND FOR TRAPPING NEUTRAL FERMIONS WITH AN INVERSELY LINEAR POTENTIAL. International Journal of Modern Physics A, 2006, 21, 2321-2329. | 0.5 | 9 |
| 74 | Kleinâ€“Gordon particles in mixed vectorâ€“scalar inversely linear potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 338, 81-89. | 0.9 | 70 |
| 75 | Exact closed-form solutions of the Dirac equation with a scalar exponential potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 342, 53-59. | 0.9 | 23 |
| 76 | Confinement of spinless particles by Coulomb potentials in two-dimensional spaceâ€“time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 346, 71-76. | 0.9 | 11 |
| 77 | Bounded solutions of fermions in the background of mixed vectorâ€“scalar inversely linear potentials. Annals of Physics, 2005, 316, 414-430. | 1.0 | 14 |
| 78 | Bounded solutions of neutral fermions with a screened Coulomb potential. Annals of Physics, 2005, 320, 56-70. | 1.0 | 20 |
| 79 | The blackbody radiation in a D-dimensional universes. Revista Brasileira De Ensino De Fisica, 2005, 27, 559-563. | 0.2 | 25 |
| 80 | Comment on â€“Kepler problem in Dirac theory for a particle with position-dependent massâ€™. Journal of Physics A, 2005, 38, 6855-6857. | 1.6 | 0 |
| 81 | Tensor coupling and pseudospin symmetry in nuclei. Physical Review C, 2005, 71, . | 1.1 | 113 |
| 82 | PERTURBATIVE BREAKING OF THE PSEUDOSPIN SYMMETRY IN THE RELATIVISTIC HARMONIC OSCILLATOR. International Journal of Modern Physics D, 2004, 13, 1447-1451. | 0.9 | 21 |
| 83 | Harmonic oscillator and nuclear pseudospin. AIP Conference Proceedings, 2004, , . | 0.3 | 0 |
| 84 | Bounded solutions for nonconserving-parity pseudoscalar potentials. AIP Conference Proceedings, 2004, , . | 0.3 | 0 |
| 85 | A fermion in a scalar inversely linear potential. AIP Conference Proceedings, 2004, , . | 0.3 | 0 |
| 86 | Exact closed-form solutions of the Dirac equation for a class of effective Morse potentials. AIP Conference Proceedings, 2004, , . | 0.3 | 0 |
| 87 | Exact solution for a fermion in the background of a scalar inversely linear potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 289-298. | 0.9 | 14 |
| 88 | Bound states of the Dirac equation for a class of effective quadratic plus inversely quadratic potentials. Annals of Physics, 2004, 311, 170-181. | 1.0 | 33 |
| 89 | Pseudospin symmetry and the relativistic harmonic oscillator. Physical Review C, 2004, 69, . | 1.1 | 217 |
| 90 | Bound states by a pseudoscalar Coulomb potential in one-plus-one dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 40-47. | 0.9 | 26 |

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|-----|--|-----|-----------|
| 91 | Confinement of neutral fermions by a pseudoscalar double-step potential in 1+1 dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 131-134. | 0.9 | 24 |
| 92 | Scattering of neutral fermions by a pseudoscalar potential step in two-dimensional spacetime. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 309, 340-344. | 0.9 | 17 |
| 93 | Classes of exact wave functions for general time-dependent Dirac Hamiltonians in 1+1 dimensions. Physical Review A, 2003, 67, . | 1.0 | 18 |
| 94 | Approximate expression for the energy of a D-dimensional anharmonic potential. Journal of Physics A, 2003, 36, 1711-1718. | 1.6 | 7 |
| 95 | Comment on "Fun and frustration with quarkonium in a 1+1 dimension," by R. S. Bhalerao and B. Ram [Am. J. Phys. 69(7), 817-818 (2001)]. American Journal of Physics, 2002, 70, 450-451. | 0.3 | 14 |
| 96 | SU(3) mixing for excited mesons. Journal of Physics A, 2002, 35, 7585-7595. | 1.6 | 8 |
| 97 | Comment on "Relativistic extension of shape-invariant potentials". Journal of Physics A, 2002, 35, 6203-6204. | 1.6 | 4 |
| 98 | Constantes de Movimento para um Potencial Dependente da Velocidade. Revista Brasileira De Ensino De Fisica, 2002, 24, 278-284. | 0.2 | 0 |
| 99 | Confinement of fermions by mixed vector-scalar linear potentials in two-dimensional space-time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 100-104. | 0.9 | 28 |
| 100 | Um Problema de Trs Corpos Analiticamente Solvel. Revista Brasileira De Ensino De Fisica, 2001, 23, 289-293. | 0.2 | 0 |
| 101 | n+1 dimensional Dirac equation and the Klein paradox. American Journal of Physics, 2001, 69, 1111-1112. | 0.3 | 4 |
| 102 | On the regular-geometric-figure solution to the N -body problem. European Journal of Physics, 2001, 22, 487-490. | 0.3 | 0 |
| 103 | Approximate analytical states of a polynomial potential: an example of symmetry restoration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 281-286. | 0.9 | 17 |
| 104 | Absence of gluonic components in axial and tensor mesons. European Physical Journal C, 2000, 17, 173-177. | 1.4 | 4 |
| 105 | EXACT SOLUTIONS OF THE DIRAC EQUATION FOR MODIFIED COULOMBIC POTENTIALS. International Journal of Modern Physics A, 2000, 15, 4355-4360. | 0.5 | 3 |
| 106 | Exploring a rheonomic system. European Journal of Physics, 2000, 21, 23-26. | 0.3 | 11 |
| 107 | Point transformations are canonical transformations. European Journal of Physics, 1999, 20, L11-L11. | 0.3 | 6 |
| 108 | A pulsating Gaussian wave packet. European Journal of Physics, 1999, 20, L19-L20. | 0.3 | 10 |

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|-----|---|-----|-----------|
| 109 | Annihilation, glueball and flavor mixing effects in pseudoscalar mesons. European Physical Journal C, 1999, 7, 95-100. | 1.4 | 8 |
| 110 | SU(3) Breaking and Annihilation Effects in the $\hat{\Gamma}$ and $\hat{\Gamma}^2$ Masses. Modern Physics Letters A, 1997, 12, 121-125. | 0.5 | 1 |
| 111 | Approximate analytic expression for the eigenenergies of the anharmonic oscillator $V(x)=Ax^6+Bx^2$. Physical Review A, 1995, 51, 3480-3484. | 1.0 | 21 |
| 112 | A cluster model for hybrids. Il Nuovo Cimento A, 1994, 107, 813-816. | 0.2 | 0 |
| 113 | A diquark model for baryon spectroscopy. Zeitschrift für Physik C-Particles and Fields, 1993, 57, 315-317. | 1.5 | 13 |
| 114 | Exact solution for a three-dimensional three-body problem with harmonic interactions. European Journal of Physics, 1993, 14, 259-261. | 0.3 | 9 |
| 115 | Electromagnetic angular momentum for a rotating charged shell. American Journal of Physics, 1991, 59, 180-181. | 0.3 | 5 |
| 116 | On the quantum Hamilton-Jacobi formalism. Foundations of Physics, 1991, 21, 649-663. | 0.6 | 8 |
| 117 | Glueballs as intermediate states in hadronic transitions. Zeitschrift für Physik C-Particles and Fields, 1990, 46, 453-455. | 1.5 | 3 |
| 118 | Mass spectra of glueballs and hybrids. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, L81-L83. | 1.4 | 7 |
| 119 | An alternative method to calculate propagators. European Journal of Physics, 1989, 10, 194-196. | 0.3 | 2 |
| 120 | A potential approach for the gluonium spectrum. Il Nuovo Cimento A, 1989, 101, 423-433. | 0.2 | 7 |
| 121 | Damped harmonic oscillator: A correction in some standard textbooks. American Journal of Physics, 1986, 54, 741-742. | 0.3 | 5 |
| 122 | Hadronic spectroscopy: Light and heavy mesons. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1985, 43, 161-168. | 0.4 | 3 |
| 123 | A particle moving in a homogeneous time-varying force. American Journal of Physics, 1984, 52, 557-559. | 0.3 | 6 |
| 124 | Green's function for the one-dimensional Helmholtz equation: closed-form solution from its Fourier sine series. Revista Brasileira De Ensino De Fisica, 0, 43, . | 0.2 | 0 |
| 125 | Equivalence between the Dirac oscillator and a spin-1/2 fermion embedded in a transverse homogeneous magnetic field: movement in a $(2 + 1)$ -dimensional world. Revista Brasileira De Ensino De Fisica, 0, 42, . | 0.2 | 1 |
| 126 | A caveat about applications of the unilateral Fourier transform. Revista Brasileira De Ensino De Fisica, 0, 42, . | 0.2 | 0 |

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|-----|--|-----|-----------|
| 127 | Frustrating use of the Laplace transform for the quantum states of a particle in a box. Revista Brasileira De Ensino De Fisica, 0, 42, . | 0.2 | 0 |
| 128 | Quantum states of a particle in a box via unilateral Fourier transform. Revista Brasileira De Ensino De Fisica, 0, 42, . | 0.2 | 0 |
| 129 | More on the quantum harmonic oscillator via unilateral Fourier transform. Revista Brasileira De Ensino De Fisica, 0, 44, . | 0.2 | 0 |