# Ersan Demiralp

## List of Publications by Year in descending order

| 23 papers | 745 citations | 516710 16 h-index | 677142 22 g-index |
|-----------|---------------|-------------------|--------------------|
| 23 all docs | 23 docs citations | 23 times ranked | 675 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Morse Stretch Potential Charge Equilibrium Force Field for Ceramics: Application to the Quartz-Stishovite Phase Transition and to Silica Glass. Physical Review Letters, 1999, 82, 1708-1711. | 7.8 | 173 |
| 2 | Factors affecting molecular dynamics simulated vitreous silica structures. Journal of Non-Crystalline Solids, 1999, 253, 133-142. | 3.1 | 121 |
| 3 | Electron-transfer boat-vibration mechanism for superconductivity in organic molecules based on BEDT-TTF. Journal of the American Chemical Society, 1995, 117, 8154-8158. | 13.7 | 66 |
| 4 | Structures and Energetics Study of Tetrathiafulvalene-Based Donors of Organic Superconductors. Journal of Physical Chemistry A, 1997, 101, 8128-8131. | 2.5 | 39 |
| 5 | Ab Initio and Semiempirical Electronic Structural Studies on Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF or ET). The Journal of Physical Chemistry, 1994, 98, 9781-9785. | 2.9 | 33 |
| 6 | Bose-Einstein condensate in a harmonic trap decorated with Dirac $\delta$ functions. Physical Review A, 2007, 76, . | 2.5 | 31 |
| 7 | MSX Force Field and Vibrational Frequencies for BEDT-TTF (Neutral and Cation). Journal of Physical Chemistry A, 1997, 101, 1975-1981. | 2.5 | 29 |
| 8 | Bound states of n-dimensional harmonic oscillator decorated with Dirac delta functions. Journal of Physics A, 2005, 38, 4783-4793. | 1.6 | 27 |
| 9 | Conduction properties of the organic superconductor $\kappa$-(BEDT-TTF)2Cu(NCS)2 based on Hubbard–unrestricted-Hartree-Fock band calculations. Physical Review B, 1997, 56, 11907-11919. | 3.2 | 25 |
| 10 | Properties of bound states of the Schrâdinger equation with attractive Dirac delta potentials. Journal of Physics A, 2003, 36, 7449-7459. | 1.6 | 24 |
| 11 | Computational Materials Chemistry at the Nanoscale. Journal of Nanoparticle Research, 1999, 1, 51-69. | 1.9 | 23 |
| 12 | The MS-Q Force Field for Clay Minerals: Application to Oil Production. Journal of Physical Chemistry B, 2001, 105, 4122-4127. | 2.6 | 23 |
| 13 | The Woods–Saxon potential with point interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 55-63. | 2.1 | 20 |
| 14 | Prediction of new donors for organic superconductors. Synthetic Metals, 1995, 72, 297-299. | 3.9 | 19 |
| 15 | Vibrational Analysis and Isotope Shifts of BEDT-TTF Donor for Organic Superconductors. Journal of Physical Chemistry A, 1998, 102, 2466-2471. | 2.5 | 19 |
| 16 | Dynamic Charge Equilibration-Morse stretch force field: Application to energetics of pure silica zeolites. Journal of Computational Chemistry, 2002, 23, 1507-1514. | 3.3 | 19 |
| 17 | Bound state solutions of the Schrödinger equation for a -symmetric potential with Dirac delta functions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 190-198. | 2.1 | 14 |
| 18 | Properties of a pseudo-Hermitian Hamiltonian for harmonic oscillator decorated with Dirac delta interactions. European Physical Journal D, 2005, 55, 1081-1084. | 0.4 | 13 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Theoretical studies on VPI-5. 3.. Computational Materials Science, 1999, 14, 135-137. | 3.0 | 11 |
| 20 | Solutions of the Schrödinger equation for Dirac delta decorated linear potential. Open Physics, 2005, 3, . | 1.7 | 6 |
| 21 | Exact solutions for a Hamiltonian with the Morse potential and the Dirac delta shell interactions. Molecular Physics, 2009, 107, 2053-2062. | 1.7 | 6 |
| 22 | Pressure Induced Phase Transformations in Silica. Materials Research Society Symposia Proceedings, 1997, 492, 287. | 0.1 | 4 |
| 23 | Structural and electronic properties of novel nanoscale C4nS4n molecules. Computational and Theoretical Chemistry, 2003, 635, 125-131. | 1.5 | 0 |