# Åakir ErkoÃ§

List of Publications by Year
in descending order

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| 84 | 957 | 516710 16 | 501196 28 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 84 | 84 | 84 | 867 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Empirical many-body potential energy functions used in computer simulations of condensed matter properties. Physics Reports, 1997, 278, 79-105. | 25.6 | 118 |
| 2 | Structural and electronic properties of single-wall ZnO nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 28, 162-170. | 2.7 | 56 |
| 3 | AM1 treatment of endohedrally hydrogen doped fullerene, nH2@C60. Computational and Theoretical Chemistry, 2003, 638, 37-40. | 1.5 | 52 |
| 4 | Monte Carlo computer simulation of copper clusters. Physical Review A, 1999, 60, 3053-3057. | 2.5 | 48 |
| 5 | Theoretical investigation of quercetin and its radical isomers. Computational and Theoretical Chemistry, 2003, 631, 141-146. | 1.5 | 47 |
| 6 | Stability of gold clusters: molecular-dynamics simulations. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 8, 210-218. | 2.7 | 44 |
| 7 | Analyzing Feâ€“Zn system using molecular dynamics, evolutionary neural nets and multi-objective genetic algorithms. Computational Materials Science, 2009, 46, 821-827. | 3.0 | 42 |
| 8 | Structural and electronic properties ofAlkTilNimmicroclusters: Density-functional-theory calculations. Physical Review A, 2002, 66, . | 2.5 | 29 |
| 9 | Ammonia deposition in fullerene: (NH3)n@C60. Computational and Theoretical Chemistry, 2003, 640, 57-61. | 1.5 | 28 |
| 10 | Molecular-dynamics simulations of silver clusters. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 5, 1-6. | 2.7 | 27 |
| 11 | EMPIRICAL POTENTIAL ENERGY FUNCTIONS USED IN THE SIMULATIONS OF MATERIALS PROPERTIES. , 2001, , 1-103. | | 27 |
| 12 | AlTiNi Ternary Alloy Clusters:Â Molecular Dynamics Simulations and Density Functional Theory Calculations. Journal of Physical Chemistry B, 2003, 107, 12118-12125. | 2.6 | 26 |
| 13 | Energetics and structural stability of lanthanum microclusters. Chemical Physics Letters, 1999, 314, 203-209. | 2.6 | 21 |
| 14 | Genetic Algorithms in Application to the Geometry Optimization of Nanoparticles. Algorithms, 2009, 2, 410-428. | 2.1 | 20 |
| 15 | Development of the ReaxFF Reactive Force Field for Inherent Point Defects in the Si/Silica System. Journal of Physical Chemistry A, 2019, 123, 4303-4313. | 2.5 | 20 |
| 16 | Comment on â€˜Modelling complexes of H2 molecules in fullerenesâ€™ by H. Dodziuk [Chem. Phys. Lett. 410 (2005) 39]. Chemical Physics Letters, 2006, 426, 222-223. | 2.6 | 17 |
| 17 | Application of Genetic Algorithms to Geometry Optimization of Microclusters: A Comparative Study of Empirical Potential Energy Functions for Silicon. Materials and Manufacturing Processes, 2003, 18, 329-339. | 4.7 | 16 |
| 18 | STRUCTURAL AND ELECTRONIC PROPERTIES OF CARBON NANOTUBES. International Journal of Modern Physics C, 2000, 11, 175-182. | 1.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | FROM CARBON NANOTUBES TO CARBON NANORODS. International Journal of Modern Physics C, 2000, 11, 1247-1255. | 1.7 | 14 |
| 20 | STRUCTURAL PROPERTIES OF CARBON NANORODS: MOLECULAR-DYNAMICS SIMULATIONS. International Journal of Modern Physics C, 2002, 13, 367-373. | 1.7 | 14 |
| 21 | Stability of Carbon Nanoonion C20@C60@C240:â€‰ Molecular Dynamics Simulations. Nano Letters, 2002, 2, 215-217. | 9.1 | 13 |
| 22 | Structural features and energetics ofZnnâ^'mCdm(n=7,8)microclusters andZn50,Cd50,andZn25Cd25nanoparticles: Molecular-dynamics simulations. Physical Review A, 2003, 68, . | 2.5 | 12 |
| 23 | EFFECT OF CHIRALITY ON THE STABILITY OF CARBON NANOTUBES: MOLECULAR-DYNAMICS SIMULATIONS. International Journal of Modern Physics C, 2001, 12, 865-870. | 1.7 | 11 |
| 24 | Theoretical investigation of flavonoids naringenin and genistein. Computational and Theoretical Chemistry, 2002, 583, 163-167. | 1.5 | 11 |
| 25 | Structural properties of defected ZnO nanoribbons under uniaxial strain: Molecular dynamics simulations. Current Applied Physics, 2014, 14, 57-67. | 2.4 | 11 |
| 26 | Development of a ReaxFF Reactive Force Field for Interstitial Oxygen in Germanium and Its Application to GeO2/Ge Interfaces. Journal of Physical Chemistry C, 2019, 123, 1208-1218. | 3.1 | 11 |
| 27 | Genetic Algorithm Application to the Structural Properties of Siâ€“Ge Mixed Clusters. Materials and Manufacturing Processes, 2009, 24, 250-254. | 4.7 | 10 |
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| 37 | Molecularâ€dynamics simulations of silicene nanoribbons under strain. Physica Status Solidi (B): Basic Research, 2012, 249, 74-81. | 1.5 | 7 |
| 38 | EMPIRICAL MANY-BODY POTENTIAL ENERGY FUNCTION CALCULATION FOR LITHIUM CLUSTERS IN BCC AND FCC SURFACE SYMMETRIES, AND CHEMISORPTION ENERGY OF ATOMIC OXYGEN ON LITHIUM BCC CLUSTERS. Modern Physics Letters A, 1995, 10, 125-131. | 1.2 | 6 |
| 39 | MOLECULAR-DYNAMICS SIMULATIONS OF NICKEL CLUSTERS. International Journal of Modern Physics C, 2000, 11, 1013-1024. | 1.7 | 6 |
| 40 | AN ALGORITHM TO GENERATE TOROIDAL AND HELICAL CAGE STRUCTURES USING PENTAGONS, HEXAGONS AND HEPTAGONS. International Journal of Modern Physics C, 2004, 15, 267-278. | 1.7 | 6 |
| 41 | Molecular-dynamics simulations of surface and bulk properties of Zn, Cd, and ZnCd systems. Physica Status Solidi (B): Basic Research, 2004, 241, 292-297. | 1.5 | 6 |
| 42 | STRUCTURAL AND ELECTRONIC PROPERTIES OF c-BN(110) SURFACE AND SURFACE POINT DEFECTS. International Journal of Modern Physics C, 2006, 17, 795-803. | 1.7 | 6 |
| 43 | THE EFFECT OF PBC ON THE SIMULATION OF NANOTUBES. International Journal of Modern Physics C, 2000, 11, 547-551. | 1.7 | 5 |
| 44 | Structural and electronic properties of xanthohumol metabolite. Computational and Theoretical Chemistry, 2002, 583, 169-172. | 1.5 | 5 |
| 45 | Theoretical investigation of sulforaphane molecule. Computational and Theoretical Chemistry, 2005, 714, 81-85. | 1.5 | 5 |
| 46 | STRUCTURAL, ELECTRONIC AND QSAR PROPERTIES OF THE CYFLUTHRIN MOLECULE: A THEORETICAL AM1 AND PM3 TREATMENT. International Journal of Modern Physics C, 2006, 17, 1391-1402. | 1.7 | 5 |
| 47 | ENERGETICS OF ARSENIC TERMINATED GaAs(001) SURFACES. International Journal of Modern Physics C, 2000, 11, 1225-1237. | 1.7 | 4 |
| 48 | Molecular-dynamics simulations of gold clusters. Advances in Quantum Chemistry, 2000, , 353-364. | 0.8 | 4 |
| 49 | ENERGETICS AND STABILITY OF DISCRETE CHARGE DISTRIBUTION ON THE SURFACE OF A SPHERE. International Journal of Modern Physics C, 2001, 12, 293-305. | 1.7 | 4 |
| 50 | MOLECULAR-DYNAMICS SIMULATIONS OF CARBON NANOCAGE STRUCTURES: NANOBALLS AND NANOTOROIDS. International Journal of Modern Physics C, 2001, 12, 685-690. | 1.7 | 4 |
| 51 | DECOMPOSITION OF SiH4 ON THE SA TYPE STEPPED Si(100) SURFACE. Surface Review and Letters, 2002, 09, 1401-1407. | 1.1 | 4 |
| 52 | STRUCTURAL AND ELECTRONIC PROPERTIES OF MAGNESIUM DIBORIDE. International Journal of Modern Physics C, 2003, 14, 483-489. | 1.7 | 4 |
| 53 | JUNCTION FORMATION IN CROSSED NANOTUBES UNDER PRESSURE: MOLECULAR-DYNAMICS SIMULATIONS. International Journal of Modern Physics C, 2005, 16, 1371-1377. | 1.7 | 4 |
| 54 | GOLD DEPOSITION ON GaAs(001) SURFACES: MOLECULAR-DYNAMICS SIMULATIONS. International Journal of Modern Physics C, 2002, 13, 759-769. | 1.7 | 3 |

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| 55 | Quantum chemical investigation of nitrotyrosine (3-nitro-l-tyrosine) and 8-nitroguanine. Amino Acids, 2010, 38, 319-327. | 2.7 | 3 |
| 56 | STRUCTURAL AND ELECTRONIC PROPERTIES OF CARBON NANOBALLS: C20, C60, AND C20@C60. International Journal of Modern Physics C, 2001, 12, 1391-1399. | 1.7 | 2 |
| 57 | ELECTRONIC BAND STRUCTURE OF STEPPED Si(100) SURFACES. Surface Review and Letters, 2001, 08, 61-66. | 1.1 | 2 |
| 58 | SIMULATION OF THE CASIMIRâ€"POLDER EFFECT FOR VARIOUS GEOMETRIES. International Journal of Modern Physics C, 2002, 13, 979-985. | 1.7 | 2 |
| 59 | STRUCTURAL AND ELECTRONIC PROPERTIES OF AlP DOPED HÃœCKEL TYPE CYCLACENE WITH FOUR BENZENOID RINGS. International Journal of Modern Physics C, 2003, 14, 1183-1189. | 1.7 | 2 |
| 60 | A COMPARATIVE STUDY OF EMPIRICAL POTENTIAL ENERGY FUNCTIONS: APPLICATIONS TO SILICON MICROCLUSTERS. International Journal of Modern Physics C, 2004, 15, 403-408. | 1.7 | 2 |
| 61 | METAL ATOM ENDOHEDRALLY DOPED C20 CAGE STRUCTURE: (X@C20; X =Ni, Fe, Co). International Journal of Modern Physics C, 2005, 16, 1553-1560. | 1.7 | 2 |
| 62 | STRUCTURAL PROPERTIES OF COPPER NANOPARTICLES: MODIFIED DIFFUSION MONTE CARLO SIMULATIONS. International Journal of Modern Physics C, 2006, 17, 1171-1177. | 1.7 | 2 |
| 63 | SINGLE WALL BAMBOO SHAPED CARBON NANOTUBE: A MOLECULAR DYNAMICS AND ELECTRONIC STUDY. International Journal of Modern Physics C, 2006, 17, 187-196. | 1.7 | 2 |
| 64 | Quantumâ€¢chemical treatment of the linoleic acid molecule and two of its conjugated isomers. European Journal of Lipid Science and Technology, 2009, 111, 1035-1041. | 1.5 | 2 |
| 65 | DECOMPOSITION OF C60 MOLECULES ON Si(100)(2 Ã— 1) SURFACE. International Journal of Modern Physics C, 2000, 11, 1067-1076. | 1.7 | 1 |
| 66 | MOLECULAR-DYNAMICS SIMULATION OF STEPPED Si(100) SURFACE. International Journal of Modern Physics C, 2000, 11, 999-1011. | 1.7 | 1 |
| 67 | MOLECULAR-DYNAMICS SIMULATION OF RADIATION DAMAGE ON COPPER CLUSTERS. International Journal of Modern Physics C, 2000, 11, 1025-1032. | 1.7 | 1 |
| 68 | ADSORPTION OF HYDROGEN AND OXYGEN ON SINGLE AND DOUBLE LAYER STEPPED SI(100) SURFACES. International Journal of Modern Physics B, 2001, 15, 2261-2274. | 2.0 | 1 |
| 69 | Cluster, Surface and Bulk Properties of ZnCd Binary Alloys: Molecular-Dynamics Simulations. Materials Science Forum, 2005, 502, 51-56. | 0.3 | 1 |
| 70 | THERMAL STABILITY OF BENZOROD ARRAYS: MOLECULAR-DYNAMICS SIMULATIONS. International Journal of Modern Physics C, 2005, 16, 827-834. | 1.7 | 1 |
| 71 | STRUCTURAL AND ELECTRONIC PROPERTIES OF (CnLi)+ CLUSTER IONS. International Journal of Modern Physics C, 2005, 16, 271-280. | 1.7 | 1 |
| 72 | STRUCTURAL AND ELECTRONIC PROPERTIES OF THE DPPC MOLECULE. International Journal of Modern Physics C, 2006, 17, 967-974. | 1.7 | 1 |

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| 73 | STRUCTURAL AND ELECTRONIC PROPERTIES OF DIPROPYL SULFIDE: A THEORETICAL INVESTIGATION. International Journal of Modern Physics C, 2006, 17, 1179-1190. | 1.7 | 1 |
| 74 | Structural Properties of Carbon Nanogears. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 30-39. | 2.1 | 1 |
| 75 | Modeling of Nanostructures. , 2015, , 1-55. | | 1 |
| 76 | GENERAL ANALYTIC DENSITY DISTRIBUTION FUNCTION FOR ATOMS. International Journal of Modern Physics C, 2000, 11, 1167-1177. | 1.7 | 0 |
| 77 | ADSORPTION OF WATER ON SINGLE AND DOUBLE LAYER STEPPED Si(100) SURFACES. Surface Review and Letters, 2001, 08, 251-259. | 1.1 | 0 |
| 78 | OPTICAL TRANSITIONS IN A PARABOLIC GaAs/Ga1-xAlxAs SUPERLATTICES. Surface Review and Letters, 2001, 08, 321-325. | 1.1 | 0 |
| 79 | IMPACT OF GEOMETRY ON THE HYDROGEN STORAGE PROPERTIES OF TITANIUM CARBIDE: A DFT STUDY ON THE MODEL <font>TiC</font><sub>4</sub><font>H</font><sub>4</sub>. International Journal of Modern Physics C, 2007, 18, 1951-1960. | 1.7 | 0 |
| 80 | Monte Carlo geometry optimization of Sin (n â©½ 71) clusters. Journal of Computational Methods in Sciences and Engineering, 2008, 7, 233-240. | 0.2 | 0 |
| 81 | Structural properties of lithium clusters: A Monte Carlo application. Journal of Computational Methods in Sciences and Engineering, 2008, 7, 409-416. | 0.2 | 0 |
| 82 | Modeling of Nanostructures. , 2012, , 995-1041. | | 0 |
| 83 | Modeling of Nanostructures. , 2017, , 1459-1513. | | 0 |
| 84 | Nanoassemblies of Porphyrin Derivatives. , 2022, , 1-38. | | 0 |