AyÅe Berkdemir

List of Publications by Year
in descending order

22 papers	5,579 citations	430442 18 h-index	794141 19 g-index
22 all docs	22 docs citations	22 times ranked	9045 citing authors

#	Article	IF	Citations
1	Extraordinary Room-Temperature Photoluminescence in Triangular WS₂ Monolayers. Nano Letters, 2013, 13, 3447-3454.	4.5	1,375
2	Identification of individual and few layers of WS2 using Raman Spectroscopy. Scientific Reports, 2013, 3, .	1.6	1,185
3	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	1.6	563
4	Photosensor Device Based on Fewâ€Layered WS₂ Films. Advanced Functional Materials, 2013, 23, 5511-5517.	7.8	546
5	Controlled Synthesis and Transfer of Large-Area WS₂ Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242.	7.3	534
6	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	4.5	463
7	Bound state solutions of the SchrÃ¶dinger equation for modified Kratzerâ€™s molecular potential. Chemical Physics Letters, 2006, 417, 326-329.	1.2	181
8	Non-oxidative intercalation and exfoliation of graphite by BrÃ¸nsted acids. Nature Chemistry, 2014, 6, 957-963.	6.6	175
9	Largeâ€Area Siâ€Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing. Advanced Materials, 2014, 26, 7593-7599.	11.1	116
10	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS₂ monolayers produced by different growth methods. Journal of Materials Research, 2016, 31, 931-944.	1.2	95
11	Polynomial solutions of the SchrÃ¶dinger equation for the generalized Woods-Saxon potential. Physical Review C, 2005, 72, .	1.1	85
12	Exact Solutions of the Duffinâ€“Kemmerâ€“Petiau Equation for the Deformed Hulthen Potential. Physica Scripta, 2005, 71, 340-343.	1.2	61
13	Systematical approach to the exact solution of the Dirac equation for a deformed form of the Woodsâ€“Saxon potential. Journal of Physics A, 2006, 39, 13455-13463.	1.6	54
14	Third order nonlinear optical response exhibited by mono- and few-layers of WS 2. 2D Materials, 2016, 3, 021005.	2.0	46
15	EIGENVALUES AND EIGENFUNCTIONS OF WOODSâ€“SAXON POTENTIAL IN PT-SYMMETRIC QUANTUM MECHANICS. Modern Physics Letters A, 2006, 21, 2087-2097.	0.5	26
16	Editorial Note: Polynomial solutions of the SchrÃ¶dinger equation for the generalized Woods-Saxon potential [Phys. Rev. C72, 027001 (2005)]. Physical Review C, 2006, 74, .	1.1	21
17	Shape-invariance approach and Hamiltonian hierarchy method on the Woodsâ€“Saxon potential for â„“ â‰ 0 states. Journal of Mathematical Chemistry, 2008, 43, 944-954.	0.7	21
18	Effect of growth rate and Mg content on dendrite tip characteristics of Alâ€“Cuâ€“Mg ternary alloys. Applied Physics A: Materials Science and Processing, 2009, 96, 873-886.	1.1	21

#	Article	IF	Citations
19	Sensors: Photosensor Device Based on Fewâ€Layered WS₂ Films (Adv. Funct. Mater. 44/2013). Advanced Functional Materials, 2013, 23, 5510-5510.	7.8	7
20	Microstructural Response to Growth Rate and Mg Additions during Directional Growth of Al-Cu-Mg Alloys. Materials Science Forum, 0, 649, 425-430.	0.3	3
21	Identification of individual and few layers of WS2 using Raman Spectroscopy. , 0, .		1
22	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). Advanced Materials, 2014, 26, 7676-7676.	11.1	0