Koray KÃ¶ksal

List of Publications by Year
in descending order

37 papers	394 citations	840776 11 h-index	794594 19 g-index
37 all docs	37 docs citations	37 times ranked	198 citing authors

#	Article	IF	Citations
1	Hopf index and the helicity of elliptically polarized twisted light. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 459.	2.1	9
2	Truncated optical Bessel modes. Physical Review A, 2022, 105, .	2.5	3
3	Structured light. , 2021, , 37-76.		0
4	Chirality-enabled optical dipole potential energy for two-level atoms. Physical Review A, 2021, 103, .	2.5	8
5	Chirality and helicity of linearly-polarised Laguerre-Gaussian beams of small beam waists. Optics Communications, 2021, 490, 126907.	2.1	12
6	Atoms in axially shifted tightly focused counter-propagating beams: the role of the Gouy and curvature phases. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2570.	2.1	3
7	Interference of axially-shifted Laguerreâ€“Gaussian beams and their interaction with atoms. Journal of Optics (United Kingdom), 2019, 21, 104002.	2.2	6
8	The effect of radial and angular profiles of twisted laser beam on Coronene molecule located off the optical axis. Computational and Theoretical Chemistry, 2018, 1130, 130-133.	2.5	2
9	The Impact of Pt Concentration on Crystal Growth Mechanism in Pt-Pd Binary Alloy System in the Context of Molecular Dynamics. Metals, 2018, 8, 926.	2.3	2
10	The angular electronic band structure and free particle model of aromatic molecules: High-frequency photon-induced ring current. International Journal of Modern Physics B, 2017, 31, 1750095.	2.0	3
11	The effect of twisted light on the ring-shaped molecules: The manipulation of the photoinduced current and the magnetic moment by transferring spin and orbital angular momentum of high frequency light. Computational and Theoretical Chemistry, 2017, 1099, 203-208.	2.5	18
12	Spin and orbital angular momentum transfer into Ga n As n nanocage: The change in induced magnetic field by tuning the light parameters and size of the molecule. Computational and Theoretical Chemistry, 2017, 1105, 27-32.	2.5	4
13	Mapping photo-induced current density of Mg-porphyrin under twisted light. Computational and Theoretical Chemistry, 2017, 1117, 87-91.	2.5	2
14	Effect of a buffer layer between the shell and ligand on the optical properties of an exciton and biexciton in type-II quantum dot nanocrystals. Philosophical Magazine, 2017, 97, 201-211.	1.6	4
15	Optical manipulation of photo-induced current in spherical semiconductor quantum dots by optical vortices. Philosophical Magazine, 2016, 96, 2686-2695.	1.6	5
16	The electronic and optical properties of a triexciton in CdSe/ZnS core/shell quantum dot nanocrystals. Philosophical Magazine, 2016, 96, 584-595.	1.6	4
17	Quantum size effect on the electronic transitions of GaAs/AlGaAs dots under twisted light. Superlattices and Microstructures, 2015, 85, 599-607.	3.1	9
18	Temperature dependent electronic properties of bulk Aluminium system. Bitlis Eren University Journal of Science and Technology, 2013, 3, 39-39.	0.8	0

#	ARTICLE	IF	CITATIONS
19	Fast computations of the dielectric response of systems with spherical or axial symmetry. Physical Review B, 2012, 85, .	3.2	8
20	Charge-current generation in atomic systems induced by optical vortices. Physical Review A, 2012, 86, .	2.5	37
21	A simple analytical expression for bound state energies for an attractive Gaussian confining potential. Physica Scripta, 2012, 86, 035006.	2.5	6
22	The effect of dilute nitrogen on nonlinear optical properties of the InGaAsN/GaAs single quantum wells. European Physical Journal B, 2012, 85, 1.	1.5	11
23	The linear optical properties of a multi-shell spherical quantum dot of a parabolic confinement for cases with and without a hydrogenic impurity. Semiconductor Science and Technology, 2012, 27, 125011.	2.0	42
24	A detailed investigation of the electronic properties of a multi-layer spherical quantum dot with a parabolic confinement. Journal of Luminescence, 2012, 132, 1705-1713.	3.1	54
25	The comparison of the band alignment of GaInAsN quantum wells on GaAs and InP substrates for (001) and (111) orientations. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 919-923.	2.7	2
26	Metal spherical nanostructures and dielectric response quantum-size effects in silver nanoclusters. Bitlis Eren University Journal of Science and Technology, 2011, 1, 4-4.	0.8	2
27	An analysis of the effect of nitrogen and a screened (by free carriers) Coulomb field on the binding energy of hydrogenic shallow donors in GaInAsN. Superlattices and Microstructures, 2010, 47, 676-684.	3.1	1
28	Critical layer thickness of GaIn(N)As(Sb) QWs on GaAs and InP substrates for (001) and (111) orientations. European Physical Journal B, 2009, 69, 211-218.	1.5	15
29	Two Electrons in a Quantum Dot: A Unified Approach. International Journal of Theoretical Physics, 2008, 47, 3091-3100.	1.2	8
30	A search on the Nikiforovâ€“Uvarov formalism. Physica Scripta, 2007, 75, 686-690.	2.5	16
31	Solutions for a generalized Woodsâ€“Saxon potential. Physica Scripta, 2007, 76, 565-570.	2.5	22
32	A theoretical investigation of carrier and optical mode confinement in GaInNAs QWs on GaAs and InP substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 671-673.	0.8	0
33	Comparison of the band alignment of strained and strain-compensated GaInNAs QWs on GaAs and InP substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 31, 148-154.	2.7	12
34	Analysis of the band alignment of highly strained indium-rich GaInNAs QWs on InP substrates. Semiconductor Science and Technology, 2006, 21, 876-880.	2.0	11
35	An alternative treatment for Yukawa-type potentials. Physica Scripta, 2006, 73, 279-283.	2.5	48
36	Equivalence of two alternative approaches to SchrÃ¶dinger equations. Physica Scripta, 2006, 73, 629-631.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Image processing of optical vortex and determination of OAM. Bitlis Eren Ãœniversitesi Fen Bilimleri Dergisi, 0, , .	0.5	0