

Canan Varlikli

List of Publications by Year in descending order

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69
papers

1,517
citations

361413

20
h-index

330143

37
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all docs

69
docs citations

69
times ranked

2154
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of heavy metal pollution and speciation in Buyak Menderes and Gediz river sediments. <i>Water Research</i> , 2003, 37, 813-822.	11.3	298
2	Perspectives for solid biopolymer electrolytes in dye sensitized solar cell and battery application. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 1098-1117.	16.4	106
3	Characterization of N,N'-bis-2-(1-hydroxy-4-methylpentyl)-3,4,9,10-perylene bis (dicarboximide) sensitized nanocrystalline TiO ₂ solar cells with polythiophene hole conductors. <i>Solar Energy Materials and Solar Cells</i> , 2005, 88, 11-21.	6.2	79
4	Characterizations and photocatalytic activity comparisons of N-doped nc-TiO ₂ depending on synthetic conditions and structural differences of amine sources. <i>Energy</i> , 2011, 36, 1243-1254.	8.8	76
5	Photoinduced energy electron transfer studies with naphthalene diimides. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 135, 103-110.	3.9	65
6	Adsorption of dyes on Sahara desert sand. <i>Journal of Hazardous Materials</i> , 2009, 170, 27-34.	12.4	63
7	Photophysical and photochemical characteristics of an azlactone dye in sol-gel matrix; a new fluorescent pH indicator. <i>Dyes and Pigments</i> , 2003, 56, 125-133.	3.7	47
8	Studies on photophysical and electrochemical properties of synthesized hydroxy perylenediimides in nanostructured titania thin films. <i>Synthetic Metals</i> , 2004, 145, 51-60.	3.9	38
9	Fluorescence emission and photooxidation studies with 5,6- and 6,7-benzocoumarins and a 5,6-benzochromone under direct and concentrated sun light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 153, 173-184.	3.9	35
10	Optical and electrochemical properties of polyether derivatives of perylenediimides adsorbed on nanocrystalline metal oxide films. <i>Organic Electronics</i> , 2008, 9, 757-766.	2.6	32
11	Studies on UV-vis and fluorescence changes in Co ²⁺ and Cu ²⁺ recognition by a new benzimidazole-benzothiadiazole derivative. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 853-863.	7.8	29
12	The synthesis and characterization of 2-(2-pyridyl)benzimidazole heteroleptic ruthenium complex: Efficient sensitizer for molecular photovoltaics. <i>Dyes and Pigments</i> , 2010, 84, 88-94.	3.7	28
13	Enhancing the efficiency of mixed halide mesoporous perovskite solar cells by introducing amine modified graphene oxide buffer layer. <i>Renewable Energy</i> , 2020, 146, 1659-1666.	8.9	28
14	Perylene-embedded electrospun PS fibers for white light generation. <i>Dyes and Pigments</i> , 2019, 160, 501-508.	3.7	27
15	Highly efficient supercapacitor using single-walled carbon nanotube electrodes and ionic liquid incorporated solid gel electrolyte. <i>High Performance Polymers</i> , 2018, 30, 971-977.	1.8	26
16	Role of side groups in pyridine and bipyridine ruthenium dye complexes for modulated surface photovoltage in nanoporous TiO ₂ . <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 686-690.	6.2	25
17	Synthesis of an amphiphilic ruthenium complex with swallow-tail bipyridyl ligand and its application in nc-DSC. <i>Inorganica Chimica Acta</i> , 2008, 361, 671-676.	2.4	24
18	A comparative study of the photophysical properties of perylenediimides in liquid phase, PVC and sol-gel host matrices. <i>Dyes and Pigments</i> , 2003, 56, 135-143.	3.7	22

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19	The synthesis of 1,8-naphthalimide groups containing imidazolium salts/ionic liquids using I^{a} , PF_6^{a} , TFSI^{a} anions and their photophysical, electrochemical and thermal properties. <i>Dyes and Pigments</i> , 2010, 86, 206-216.	3.7	22
20	Solution processable neutral state colourless electrochromic devices: effect of the layer thickness on the electrochromic performance. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10090-10094.	5.5	21
21	P3HT/graphene bilayer electrode for Schottky junction photodetectors. <i>Nanotechnology</i> , 2018, 29, 145502.	2.6	21
22	Synthesis, characterization and molecular modeling of new ruthenium(II) complexes with nitrogen and nitrogen/oxygen donor ligands. <i>Arabian Journal of Chemistry</i> , 2017, 10, 389-397.	4.9	20
23	Electroluminescence from two new ruthenium(II) complexes as phosphorescent dopant: Positive effect of swallow-tail bipyridyl ligand. <i>Dyes and Pigments</i> , 2012, 95, 23-32.	3.7	19
24	Efficiency enhancement in a single emission layer yellow organic light emitting device: Contribution of CIS/ZnS quantum dot. <i>Thin Solid Films</i> , 2015, 589, 153-160.	1.8	19
25	Controlling the distribution of oxygen functionalities on GO and utilization of PEDOT:PSS-GO composite as hole injection layer of a solution processed blue OLED. <i>Current Applied Physics</i> , 2017, 17, 565-572.	2.4	19
26	Enhanced capacitive behaviour of graphene based electrochemical double layer capacitors by etheric substitution on ionic liquids. <i>Journal of Power Sources</i> , 2020, 467, 228353.	7.8	19
27	Synthesis and characterization of novel series of Fe(II)-mixed ligand complexes involving 2,2'-bipyridyl ligand. <i>Dyes and Pigments</i> , 2013, 99, 1056-1064.	3.7	17
28	Comparative studies of pyridine and bipyridine ruthenium dye complexes with different side groups as sensitizers in sol-gel quasi-solid-state dye sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 160, 227-234.	5.2	17
29	N-doped titania powders prepared by different nitrogen sources and their application in quasi-solid state dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2014, 38, 908-917.	4.5	16
30	Photooxidation studies with perylenediimides in solution, PVC and sol-gel thin films under concentrated sun light. <i>Solar Energy</i> , 2005, 78, 5-17.	6.1	15
31	Highly Efficient Organic UV Photodetectors Based on Polyfluorene and Naphthalenediimide Blends: Effect of Thermal Annealing. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-11.	2.5	15
32	Silylethynyl Substitution for Preventing Aggregate Formation in Perylene Diimides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13041-13049.	3.1	15
33	Triboluminescent Electrospun Mats with Blue-Green Emission under Mechanical Force. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11709-11716.	3.1	14
34	Enhanced electroluminescence from MEH-PPV-POSS:CuInS ₂ nanocomposite based organic light emitting diode. <i>Synthetic Metals</i> , 2011, 161, 196-202.	3.9	13
35	Navigating CIE Space for Efficient TADF Downconversion WOLEDs. <i>Dyes and Pigments</i> , 2020, 183, 108707.	3.7	13
36	The use of a perylenediimide derivative as a dopant in hole transport layer of an organic light emitting device. <i>Applied Surface Science</i> , 2011, 257, 6089-6094.	6.1	12

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37	Preparation of dye sensitized titanium oxide nanoparticles for solar cell applications. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1688-1694.	4.0	11
38	White LED light production using dibromoperylene derivatives in down conversion of energy. <i>Canadian Journal of Physics</i> , 2018, 96, 734-739.	1.1	10
39	Dispersion stability of amine modified graphene oxides and their utilization in solution processed blue OLED. <i>Chemical Engineering Journal</i> , 2020, 381, 122716.	12.7	10
40	A comparative study on the sorption and desorption of Hg, Th and U on clay. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1996, 214, 51-66.	1.5	9
41	A new 1 <i>H</i> -pyridin-(2E)-ylidene ruthenium complex as sensitizer for a dye-sensitized solar cell. <i>Journal of Coordination Chemistry</i> , 2013, 66, 1384-1395.	2.2	9
42	Structural Stability of Physisorbed Air-Oxidized Decanethiols on Au(111). <i>Journal of Physical Chemistry C</i> , 2020, 124, 11977-11984.	3.1	9
43	An ultraviolet photodetector with an active layer composed of solution processed polyfluorene:Zn _{0.71} Cd _{0.29} S hybrid nanomaterials. <i>Applied Surface Science</i> , 2014, 305, 227-234.	6.1	8
44	Synthesis, characterization and photophysical properties of iridium complexes with amidinate ligands. <i>Journal of Organometallic Chemistry</i> , 2014, 772-773, 68-78.	1.8	8
45	A study on photophysical properties of some Vitamin K3 derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 162, 283-288.	3.9	7
46	Highly efficient orange-red electroluminescence from a single layer MEH-PPV-POSS:Cd _{0.75} Se _{0.25} hybrid PLED. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 921-928.	3.5	7
47	Solution-Processed Polyfluorene:Naphthalenediimide-N-Doped TiO ₂ Hybrids for Ultraviolet Photodetector Applications. <i>Journal of Electronic Materials</i> , 2013, 42, 3502-3511.	2.2	7
48	Conventional and Inverted UV-PDs Based on Solution Processed PFE:ZnO Active Layer. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 537-540.	2.5	7
49	Synthesis, photophysical and electrochemical properties of novel carbazole-triazine based high triplet energy, solution-processable materials. <i>Dyes and Pigments</i> , 2018, 159, 92-99.	3.7	7
50	White Light Electroluminescence by Organic-Inorganic Heterostructures with CdSe Quantum Dots as Red Light Emitters. <i>Advances in Optical Technologies</i> , 2011, 2011, 1-8.	0.8	6
51	Structural and optical properties of new yellow emitting iridium complexes and their application as an active layer component in white organic light-emitting diodes. <i>RSC Advances</i> , 2014, 4, 46831-46839.	3.6	6
52	Contribution of O ₂ plasma treatment and amine modified GOs on film properties of conductive PEDOT:PSS: Application in indium tin oxide free solution processed blue OLED. <i>Current Applied Physics</i> , 2019, 19, 910-916.	2.4	6
53	Photocatalytic activity of dye-sensitized and non-sensitized GO-TiO ₂ nanocomposites under simulated and direct sunlight. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 425-435.	2.1	6
54	Highly efficient MEH-PPV-POSS based PLEDs through optimization of charge transport. <i>Synthetic Metals</i> , 2012, 162, 621-629.	3.9	5

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55	Perylene Based Solution Processed Single Layer WOLED with Adjustable CCT and CRI. Electronics (Switzerland), 2021, 10, 725.	3.1	5
56	Reducing the Efficiency Roll Off and Applied Potential-Induced Color Shifts in CdSe@ZnS/ZnS-Based Light-Emitting Diodes. Journal of Physical Chemistry C, 2020, 124, 14847-14854.	3.1	4
57	Influence of Cation Size and Polarity on Charge Transport in Ionic Liquid Based Electrolytes. Israel Journal of Chemistry, 2022, 62, .	2.3	3
58	Tetraphenylsilane group containing carbazoles as high triplet energy host materials for solution-processable PhOLEDs. Turkish Journal of Chemistry, 2015, 39, 917-929.	1.2	2
59	Soluble Cytotoxic Ruthenium(II) Complexes with 2-Hydrazinopyridine. Russian Journal of Inorganic Chemistry, 2019, 64, 742-754.	1.3	2
60	Hybridized Nanomaterials for Enhancing Photocatalytic Activity in Solar Fuel Production. Green Chemistry and Sustainable Technology, 2022, , 817-861.	0.7	2
61	Solution processable graphene oxide hole transport layers and their application in P3HT:HHPER active layer based BHJSC. Turkish Journal of Physics, 2015, 39, 254-263.	1.1	1
62	High photoresponse from solution processed conventional and inverted ultraviolet photodetectors. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 4208-4217.	1.4	1
63	Fabrication and Characterization of a Solution Processed Flexible Thermal Sensor by Using Chemically Synthesized GO and rGO. , 2019, , .		1
64	1-Octanol Is a Functional Impurity Modifying Particle Size and Photophysical Properties of Colloidal ZnCdSSe/ZnS Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 14401-14408.	3.1	1
65	Visible Range Activated Metal Oxide Photocatalysts in New and Emerging Energy Applications. Green Chemistry and Sustainable Technology, 2022, , 787-815.	0.7	1
66	Oxygen Sensing Properties of Embedded Amphiphilic Ruthenium(II) Derivatives in Presence of Silver Nanoparticles. Sensor Letters, 2015, 13, 802-812.	0.4	1
67	Solar and Environmental Degradation Effect on Tensile Strength and Glass Transition Temperature of Glass Fibre Reinforced Plastic Laminates. Polymers and Polymer Composites, 2010, 18, 345-349.	1.9	0
68	Electroluminescence Properties and Stability of Super Yellow on ZAZ and ITO Anodes. , 2021, , .		0
69	The Effect of Imide Substituents on the Excited State Properties of Perylene Diimide Derivatives. , 0, , .		0