

Talha Erdem

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,393
citations

19
h-index

37
g-index

55
ext. papers

1,560
ext. citations

7
avg, IF

4.63
L-index

#	Paper	IF	Citations
47	Tuning optical properties of self-assembled nanoparticle network with external optical excitation. <i>Journal of Applied Physics</i> , 2021 , 129, 153106	2.5	
46	Optical detection of microplastics in water. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 63869-63866	6.6	6
45	A simple approach to prepare self-assembled, nacre-inspired clay/polymer nanocomposites. <i>Soft Matter</i> , 2020 , 16, 5497-5505	3.6	7
44	Transparent Films Made of Highly Scattering Particles. <i>Langmuir</i> , 2020 , 36, 911-918	4	3
43	Multiplexed patterning of cesium lead halide perovskite nanocrystals by additive jet printing for efficient white light generation. <i>Chemical Engineering Journal</i> , 2020 , 380, 122493	14.7	19
42	Osmotic-Pressure-Induced Nematic Ordering in Suspensions of Laponite and Carboxy Methyl Cellulose. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9475-9481	3.4	
41	Metrics for Light Source Design. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 17-26	0.4	
40	Common White Light Sources. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 27-34	0.4	
39	Light Stimulus and Human Eye. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 5-9	0.4	
38	How to Design Quality Light Sources With Discrete Color Components. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 35-43	0.4	
37	Future Outlook. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 45-47	0.4	
36	Colorimetry for LED Lighting. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 11-16	0.4	
35	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. <i>Advanced Functional Materials</i> , 2019 , 29, 1901028	15.6	40
34	Color Science and Photometry for Lighting with LEDs and Semiconductor Nanocrystals. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 ,	0.4	1
33	Color-Enrichment Semiconductor Nanocrystals for Biorhythm-Friendly Backlighting. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1457-1468	3.1	1
32	Brightly Luminescent Cu-Zn-In-S/ZnS Core/Shell Quantum Dots in Salt Matrices. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 233, 23-40	3.1	7
31	CdSe/CdSe _{1-x} Tex Core/Crown Heteronanoplatelets: Tuning the Excitonic Properties without Changing the Thickness. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4650-4658	3.8	37

30	Near-Unity Emitting Copper-Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. <i>Advanced Materials</i> , 2017 , 29, 1700821	24	96
29	Highly Luminescent CB[7]-Based Conjugated Polyrotaxanes Embedded into Crystalline Matrices. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700290	3.9	4
28	Excitonic improvement of colloidal nanocrystals in salt powder matrix for quality lighting and color enrichment. <i>Optics Express</i> , 2016 , 24, A74-84	3.3	7
27	High-Stability, High-Efficiency Organic Monoliths Made of Oligomer Nanoparticles Wrapped in Organic Matrix. <i>ACS Nano</i> , 2016 , 10, 5333-9	16.7	13
26	Colloidal nanocrystals for quality lighting and displays: milestones and recent developments. <i>Nanophotonics</i> , 2016 , 5, 74-95	6.3	56
25	Colloidal Nanocrystals Embedded in Macrocrystals: Methods and Applications. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4117-4123	6.4	24
24	Stable and efficient colour enrichment powders of nonpolar nanocrystals in LiCl. <i>Nanoscale</i> , 2015 , 7, 17611-6	7.7	15
23	Macrocrystals of Colloidal Quantum Dots in Anthracene: Exciton Transfer and Polarized Emission. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1767-72	6.4	15
22	Implementation of High-Quality Warm-White Light-Emitting Diodes by a Model-Experimental Feedback Approach Using Quantum Dot-Salt Mixed Crystals. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23364-71	9.5	41
21	Construction of multi-layered white emitting organic nanoparticles by clicking polymers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10277-10284	7.1	7
20	Sweet plasmonics: Sucrose macrocrystals of metal nanoparticles. <i>Nano Research</i> , 2015 , 8, 860-869	10	14
19	Continuously Tunable Emission in Inverted Type-I CdS/CdSe Core/Crown Semiconductor Nanoplatelets. <i>Advanced Functional Materials</i> , 2015 , 25, 4282-4289	15.6	47
18	Tunable white-light-emitting Mn-doped ZnSe nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3654-60	9.5	60
17	Manganese doped fluorescent paramagnetic nanocrystals for dual-modal imaging. <i>Small</i> , 2014 , 10, 4961-6	16	31
16	Energy-saving quality road lighting with colloidal quantum dot nanophosphors. <i>Nanophotonics</i> , 2014 , 3, 373-381	6.3	12
15	Highly polarized light emission by isotropic quantum dots integrated with magnetically aligned segmented nanowires. <i>Applied Physics Letters</i> , 2014 , 105, 141116	3.4	1
14	Comparative study of field-dependent carrier dynamics and emission kinetics of InGaN/GaN light-emitting diodes grown on (112̄) semipolar versus (0001) polar planes. <i>Applied Physics Letters</i> , 2014 , 104, 143506	3.4	26
13	Morphology-Dependent Energy Transfer of Polyfluorene Nanoparticles Decorating InGaN/GaN Quantum-Well Nanopillars. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18613-18619	3.8	9

12	Color science of nanocrystal quantum dots for lighting and displays. <i>Nanophotonics</i> , 2013 , 2, 57-81	6.3	108
11	Large-area (over 50 cm \times 50 cm) freestanding films of colloidal InP/ZnS quantum dots. <i>Nano Letters</i> , 2012 , 12, 3986-93	11.5	91
10	Power conversion and luminous efficiency performance of nanophosphor quantum dots on color-conversion LEDs for high-quality general lighting 2012 ,		3
9	Computational study of power conversion and luminous efficiency performance for semiconductor quantum dot nanophosphors on light-emitting diodes. <i>Optics Express</i> , 2012 , 20, 3275-95	3.3	29
8	High scotopic/photopic ratio white-light-emitting diodes integrated with semiconductor nanophosphors of colloidal quantum dots. <i>Optics Letters</i> , 2011 , 36, 1893-5	3	33
7	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering: reply to comment. <i>Optics Letters</i> , 2011 , 36, 2852	3	7
6	On-Chip Integration of Functional Hybrid Materials and Components in Nanophotonics and Optoelectronics 2011 , 339-391		
5	Semiconductor nanocrystals as rare-earth alternatives. <i>Nature Photonics</i> , 2011 , 5, 126-126	33.9	66
4	Quantum dot integrated LEDs using photonic and excitonic color conversion. <i>Nano Today</i> , 2011 , 6, 632-647	17.9	212
3	White-emitting conjugated polymer nanoparticles with cross-linked shell for mechanical stability and controllable photometric properties in color-conversion LED applications. <i>ACS Nano</i> , 2011 , 5, 2483-92	16.7	55
2	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering. <i>Optics Letters</i> , 2010 , 35, 3372-4	3	68
1	A photometric investigation of ultra-efficient LEDs with high color rendering index and high luminous efficacy employing nanocrystal quantum dot luminophores. <i>Optics Express</i> , 2010 , 18, 340-7	3.3	122