Talha Erdem

List of Publications by Citations

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	Quantum dot integrated LEDs using photonic and excitonic color conversion. *Nano Today*, **2011**, 6, 632-647	17.9	212
46	A photometric investigation of ultra-efficient LEDs with high color rendering index and high luminous efficacy employing nanocrystal quantum dot luminophores. *Optics Express*, **2010**, 18, 340-7	3.3	122
45	Color science of nanocrystal quantum dots for lighting and displays. *Nanophotonics*, **2013**, 2, 57-81	6.3	108
44	Near-Unity Emitting Copper-Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. *Advanced Materials*, **2017**, 29, 1700821	24	96
43	Large-area (over 50 cm 50 cm) freestanding films of colloidal InP/ZnS quantum dots. *Nano Letters*, **2012**, 12, 3986-93	11.5	91
42	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering. *Optics Letters*, **2010**, 35, 3372-4	3	68
41	Semiconductor nanocrystals as rare-earth alternatives. *Nature Photonics*, **2011**, 5, 126-126	33.9	66
40	Tunable white-light-emitting Mn-doped ZnSe nanocrystals. *ACS Applied Materials & Interfaces*, **2014**, 6, 3654-60	9.5	60
39	Colloidal nanocrystals for quality lighting and displays: milestones and recent developments. *Nanophotonics*, **2016**, 5, 74-95	6.3	56
38	White-emitting conjugated polymer nanoparticles with cross-linked shell for mechanical stability and controllable photometric properties in color-conversion LED applications. *ACS Nano*, **2011**, 5, 2483-92	16.7	55
37	Continuously Tunable Emission in Inverted Type-I CdS/CdSe Core/Crown Semiconductor Nanoplatelets. *Advanced Functional Materials*, **2015**, 25, 4282-4289	15.6	47
36	Implementation of High-Quality Warm-White Light-Emitting Diodes by a Model-Experimental Feedback Approach Using Quantum Dot-Salt Mixed Crystals. *ACS Applied Materials & Interfaces* , **2015**, 7, 23364-71	9.5	41
35	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. *Advanced Functional Materials*, **2019**, 29, 1901028	15.6	40
34	CdSe/CdSe1 Tex Core/Crown Heteronanoplatelets: Tuning the Excitonic Properties without Changing the Thickness. *Journal of Physical Chemistry C*, **2017**, 121, 4650-4658	3.8	37
33	High scotopic/photopic ratio white-light-emitting diodes integrated with semiconductor nanophosphors of colloidal quantum dots. *Optics Letters*, **2011**, 36, 1893-5	3	33
32	Manganese doped fluorescent paramagnetic nanocrystals for dual-modal imaging. *Small*, **2014**, 10, 4961-6	11	31
31	Computational study of power conversion and luminous efficiency performance for semiconductor quantum dot nanophosphors on light-emitting diodes. *Optics Express*, **2012**, 20, 3275-95	3.3	29

30	Comparative study of field-dependent carrier dynamics and emission kinetics of InGaN/GaN light-emitting diodes grown on (112□2) semipolar versus (0001) polar planes. *Applied Physics Letters* , **2014**, 104, 143506	3.4	26
29	Colloidal Nanocrystals Embedded in Macrocrystals: Methods and Applications. *Journal of Physical Chemistry Letters*, **2016**, 7, 4117-4123	6.4	24
28	Multiplexed patterning of cesium lead halide perovskite nanocrystals by additive jet printing for efficient white light generation. *Chemical Engineering Journal*, **2020**, 380, 122493	14.7	19
27	Stable and efficient colour enrichment powders of nonpolar nanocrystals in LiCl. *Nanoscale*, **2015**, 7, 17611-6	7.7	15
26	Macrocrystals of Colloidal Quantum Dots in Anthracene: Exciton Transfer and Polarized Emission. *Journal of Physical Chemistry Letters*, **2015**, 6, 1767-72	6.4	15
25	Sweet plasmonics: Sucrose macrocrystals of metal nanoparticles. *Nano Research*, **2015**, 8, 860-869	10	14
24	High-Stability, High-Efficiency Organic Monoliths Made of Oligomer Nanoparticles Wrapped in Organic Matrix. *ACS Nano*, **2016**, 10, 5333-9	16.7	13
23	Energy-saving quality road lighting with colloidal quantum dot nanophosphors. *Nanophotonics*, **2014**, 3, 373-381	6.3	12
22	Morphology-Dependent Energy Transfer of Polyfluorene Nanoparticles Decorating InGaN/GaN Quantum-Well Nanopillars. *Journal of Physical Chemistry C*, **2013**, 117, 18613-18619	3.8	9
21	Construction of multi-layered white emitting organic nanoparticles by clicking polymers. *Journal of Materials Chemistry C*, **2015**, 3, 10277-10284	7.1	7
20	A simple approach to prepare self-assembled, nacre-inspired clay/polymer nanocomposites. *Soft Matter*, **2020**, 16, 5497-5505	3.6	7
19	Brightly Luminescent Cu-Zn-In-S/ZnS Core/Shell Quantum Dots in Salt Matrices. *Zeitschrift Fur Physikalische Chemie*, **2018**, 233, 23-40	3.1	7
18	Excitonic improvement of colloidal nanocrystals in salt powder matrix for quality lighting and color enrichment. *Optics Express*, **2016**, 24, A74-84	3.3	7
17	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering: reply to comment. *Optics Letters*, **2011**, 36, 2852	3	7
16	Optical detection of microplastics in water. *Environmental Science and Pollution Research*, **2021**, 28, 63860-63866	3.1	6
15	Highly Luminescent CB[7]-Based Conjugated Polyrotaxanes Embedded into Crystalline Matrices. *Macromolecular Materials and Engineering*, **2017**, 302, 1700290	3.9	4
14	Transparent Films Made of Highly Scattering Particles. *Langmuir*, **2020**, 36, 911-918	4	3
13	Power conversion and luminous efficiency performance of nanophosphor quantum dots on color-conversion LEDs for high-quality general lighting **2012**,		3

12	Color-Enrichment Semiconductor Nanocrystals for Biorhythm-Friendly Backlighting. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1457-1468	3.1	1
11	Highly polarized light emission by isotropic quantum dots integrated with magnetically aligned segmented nanowires. *Applied Physics Letters*, **2014**, 105, 141116	3.4	1
10	Color Science and Photometry for Lighting with LEDs and Semiconductor Nanocrystals. *SpringerBriefs in Applied Sciences and Technology*, **2019**,	0.4	1
9	Metrics for Light Source Design. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 17-26	0.4	
8	Common White Light Sources. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 27-34	0.4	
7	Light Stimulus and Human Eye. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 5-9	0.4	
6	How to Design Quality Light Sources With Discrete Color Components. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 35-43	0.4	
5	Future Outlook. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 45-47	0.4	
4	Colorimetry for LED Lighting. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 11-16	0.4	
3	On-Chip Integration of Functional Hybrid Materials and Components in Nanophotonics and Optoelectronics **2011**, 339-391		
2	Osmotic-Pressure-Induced Nematic Ordering in Suspensions of Laponite and Carboxy Methyl Cellulose. *Journal of Physical Chemistry B*, **2020**, 124, 9475-9481	3.4	
1	Tuning optical properties of self-assembled nanoparticle network with external optical excitation. *Journal of Applied Physics*, **2021**, 129, 153106	2.5	