

Sergii M Kalytchuk

List of Publications by Year in descending order

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48
papers

3,596
citations

185998

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214527

47
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all docs

48
docs citations

48
times ranked

5733
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust dual cationic ligand for stable and efficient warm-white light emission in lead-free double perovskite nanocrystals. <i>Applied Materials Today</i> , 2022, 26, 101288.	2.3	4
2	Bright, Magnetic NIR-II Quantum Dot Probe for Sensitive Dual-Modality Imaging and Intensive Combination Therapy of Cancer. <i>ACS Nano</i> , 2022, 16, 8076-8094.	7.3	31
3	Carbon Dots Detect Water-to-Ice Phase Transition and Act as Alcohol Sensors <i>via</i> Fluorescence Turn-Off/On Mechanism. <i>ACS Nano</i> , 2021, 15, 6582-6593.	7.3	34
4	Transparent and Low-Loss Luminescent Solar Concentrators Based on Self-Trapped Exciton Emission in Lead-Free Double Perovskite Nanocrystals. <i>ACS Applied Energy Materials</i> , 2021, 4, 6445-6453.	2.5	27
5	Uncovering the Role of Trioctylphosphine on Colloidal and Emission Stability of Sb-Alloyed Cs ₂ NalCl ₆ Double Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47845-47859.	4.0	24
6	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. <i>ACS Applied Energy Materials</i> , 2021, 4, 11367-11376.	2.5	10
7	Manganese-Mediated Growth of ZnS Shell on KMnF ₃ :Yb,Er Cores toward Enhanced Up/Downconversion Luminescence. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11934-11944.	4.0	18
8	Pressure-Modulated Broadband Emission in 2D Layered Hybrid Perovskite-Like Bromoplumbate. <i>Inorganic Chemistry</i> , 2020, 59, 12431-12436.	1.9	9
9	Purple-emissive carbon dots enhance sensitivity of Si photodetectors to ultraviolet range. <i>Nanoscale</i> , 2020, 12, 8379-8384.	2.8	36
10	Size-Selected Graphene Oxide Loaded with Photosensitizer (TMPyP) for Targeting Photodynamic Therapy In Vitro. <i>Processes</i> , 2020, 8, 251.	1.3	6
11	A carbon dot-based tandem luminescent solar concentrator. <i>Nanoscale</i> , 2020, 12, 6664-6672.	2.8	75
12	Intrinsic photoluminescence of amine-functionalized graphene derivatives for bioimaging applications. <i>Applied Materials Today</i> , 2019, 17, 112-122.	2.3	25
13	Bimodal role of fluorine atoms in fluorographene chemistry opens a simple way toward double functionalization of graphene. <i>Carbon</i> , 2019, 145, 251-258.	5.4	12
14	High-Performance Supercapacitors Based on a Zwitterionic Network of Covalently Functionalized Graphene with Iron Tetraaminophthalocyanine. <i>Advanced Functional Materials</i> , 2018, 28, 1801111.	7.8	38
15	Carbon Dot Fluorescence-Lifetime-Encoded Anti-Counterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29902-29908.	4.0	183
16	Graphene: High-Performance Supercapacitors Based on a Zwitterionic Network of Covalently Functionalized Graphene with Iron Tetraaminophthalocyanine (<i>Adv. Funct. Mater.</i> 29/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870203.	7.8	0
17	Carbon Dot Nanothermometry: Intracellular Photoluminescence Lifetime Thermal Sensing. <i>ACS Nano</i> , 2017, 11, 1432-1442.	7.3	243
18	Sodium Chloride Protected CdHgTe Quantum Dot Based Solid-State Near-Infrared Luminophore for Light-Emitting Devices and Luminescence Thermometry. <i>ACS Photonics</i> , 2017, 4, 1459-1465.	3.2	21

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19	Fe(III)-functionalized carbon dots—Highly efficient photoluminescence redox catalyst for hydrogenations of olefins and decomposition of hydrogen peroxide. <i>Applied Materials Today</i> , 2017, 7, 179-184.	2.3	34
20	Growth mechanism of strongly emitting CH ₃ NH ₃ PbBr ₃ perovskite nanocrystals with a tunable bandgap. <i>Nature Communications</i> , 2017, 8, 996.	5.8	210
21	Supported gold clusters as effective and reusable photocatalysts for the abatement of endocrine-disrupting chemicals under visible light. <i>Journal of Catalysis</i> , 2017, 354, 1-12.	3.1	37
22	Graphitic Nitrogen Triggers Red Fluorescence in Carbon Dots. <i>ACS Nano</i> , 2017, 11, 12402-12410.	7.3	550
23	Temperature-Dependent Exciton and Trap-Related Photoluminescence of CdTe Quantum Dots Embedded in a NaCl Matrix: Implication in Thermometry. <i>Small</i> , 2016, 12, 466-476.	5.2	107
24	Nanothermometry: Temperature-Dependent Exciton and Trap-Related Photoluminescence of CdTe Quantum Dots Embedded in a NaCl Matrix: Implication in Thermometry (<i>Small</i> 4/2016). <i>Small</i> , 2016, 12, 548-548.	5.2	2
25	Self-Assembly of Electron Donor—Acceptor-Based Carbazole Derivatives: Novel Fluorescent Organic Nanoprobes for Both One- and Two-Photon Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11355-11365.	4.0	56
26	Ultrafast Exciton Dynamics in Cd x Hg (1 - x) Te alloy Quantum Dots. <i>Chemical Physics</i> , 2016, 469-470, 25-30.	0.9	10
27	Impact of D ₂ O/H ₂ O Solvent Exchange on the Emission of HgTe and CdTe Quantum Dots: Polaron and Energy Transfer Effects. <i>ACS Nano</i> , 2016, 10, 4301-4311.	7.3	43
28	Insight into Strain Effects on Band Alignment Shifts, Carrier Localization and Recombination Kinetics in CdTe/CdS Core/Shell Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015, 137, 2073-2084.	6.6	81
29	Carbon dot hybrids with oligomeric silsesquioxane: solid-state luminophores with high photoluminescence quantum yield and applicability in white light emitting devices. <i>Chemical Communications</i> , 2015, 51, 2950-2953.	2.2	125
30	Thin polymer films with embedded CdS nanocrystals. <i>Colloid and Polymer Science</i> , 2015, 293, 1159-1169.	1.0	6
31	Efficient Emission Facilitated by Multiple Energy Level Transitions in Uniform Graphitic Carbon Nitride Films Deposited by Thermal Vapor Condensation. <i>ChemPhysChem</i> , 2015, 16, 954-959.	1.0	72
32	Quasi Core/Shell Lead Sulfide/Graphene Quantum Dots for Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18886-18895.	1.5	50
33	Effect of microwave treatment on the luminescence properties of CdS and CdTe:Cl Single Crystals. <i>Semiconductors</i> , 2015, 49, 895-898.	0.2	8
34	Down-conversion monochromatic light-emitting diodes with the color determined by the active layer thickness and concentration of carbon dots. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6613-6615.	2.7	91
35	High color rendering index white light emitting diodes fabricated from a combination of carbon dots and zinc copper indium sulfide quantum dots. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	93
36	Highly luminescent covalently bonded layered double hydroxide—fluorescent dye nanohybrids. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4490-4494.	2.7	27

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37	Semiconductor Nanocrystals as Luminescent Down-Shifting Layers To Enhance the Efficiency of Thin-Film CdTe/CdS and Crystalline Si Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16393-16400.	1.5	82
38	Hierarchical growth of SnO ₂ nanostructured films on FTO substrates: structural defects induced by Sn(II) self-doping and their effects on optical and photoelectrochemical properties. <i>Nanoscale</i> , 2014, 6, 6084.	2.8	51
39	Multiple exciton generation in cluster-free alloy Cd _x Hg _{1-x} Te colloidal quantum dots synthesized in water. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25710-25722.	1.3	22
40	Synthesis, solution-processed thin film transistors and solid solutions of silylethynylated diazotetracenes. <i>Chemical Communications</i> , 2014, 50, 12828-12831.	2.2	32
41	Thickness-Dependent Full-Color Emission Tunability in a Flexible Carbon Dot Ionogel. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1412-1420.	2.1	361
42	Aqueous Manganese-Doped Core/Shell CdTe/ZnS Quantum Dots with Strong Fluorescence and High Relaxivity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18752-18761.	1.5	58
43	Color-Switchable Electroluminescence of Carbon Dot Light-Emitting Diodes. <i>ACS Nano</i> , 2013, 7, 11234-11241.	7.3	471
44	Sodium chloride protected CdTe quantum dot based solid-state luminophores with high color quality and fluorescence efficiency. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	45
45	Shuttling Photoelectrochemical Electron Transport in Tricomponent CdS/rGO/TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20406-20414.	1.5	55
46	Influence of conditions for synthesis of CdTe nanocrystals on their photoluminescence properties and plasmon effect. <i>Journal of Applied Spectroscopy</i> , 2012, 79, 765-772.	0.3	11
47	Colloidal CdTe and CdSe Quantum Dots: Technology of Preparing and Optical Properties. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2009, 4, 174-179.	0.1	9
48	Luminescence studies of heat treatment influence on size distribution of CdTe nanocrystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1074-1077.	0.8	1