

# Sergii V Yakunin

## List of Publications by Citations

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76 papers	12,983 citations	35 h-index	86 g-index
86 ext. papers	15,507 ext. citations	10.3 avg, IF	6.57 L-index

#	Paper	IF	Citations
76	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX <sub>3</sub> , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. <i>Nano Letters</i> , <b>2015</b> , 15, 3692-6	11.5	4888
75	Fast Anion-Exchange in Highly Luminescent Nanocrystals of Cesium Lead Halide Perovskites (CsPbX <sub>3</sub> , X = Cl, Br, I). <i>Nano Letters</i> , <b>2015</b> , 15, 5635-40	11.5	1515
74	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. <i>Nature Communications</i> , <b>2015</b> , 6, 8056	17.4	1058
73	Detection of X-ray photons by solution-processed organic-inorganic perovskites. <i>Nature Photonics</i> , <b>2015</b> , 9, 444-449	33.9	685
72	Colloidal CsPbX (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 641-646	20.1	435
71	Harnessing Defect-Tolerance at the Nanoscale: Highly Luminescent Lead Halide Perovskite Nanocrystals in Mesoporous Silica Matrixes. <i>Nano Letters</i> , <b>2016</b> , 16, 5866-74	11.5	396
70	Detection of gamma photons using solution-grown single crystals of hybrid lead halide perovskites. <i>Nature Photonics</i> , <b>2016</b> , 10, 585-589	33.9	331
69	Monodisperse Formamidinium Lead Bromide Nanocrystals with Bright and Stable Green Photoluminescence. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14202-14205	16.4	297
68	Dismantling the "Red Wall" of Colloidal Perovskites: Highly Luminescent Formamidinium and Formamidinium-Cesium Lead Iodide Nanocrystals. <i>ACS Nano</i> , <b>2017</b> , 11, 3119-3134	16.7	291
67	Efficient Blue Electroluminescence Using Quantum-Confined Two-Dimensional Perovskites. <i>ACS Nano</i> , <b>2016</b> , 10, 9720-9729	16.7	239
66	Solution-Grown CsPbBr Perovskite Single Crystals for Photon Detection. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8470-8474	9.6	224
65	Polar-solvent-free colloidal synthesis of highly luminescent alkylammonium lead halide perovskite nanocrystals. <i>Nanoscale</i> , <b>2016</b> , 8, 6278-83	7.7	196
64	Disphenoidal Zero-Dimensional Lead, Tin, and Germanium Halides: Highly Emissive Singlet and Triplet Self-Trapped Excitons and X-ray Scintillation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9764-9768	16.4	186
63	Coherent Nanotwins and Dynamic Disorder in Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2017</b> , 11, 3819-3831	16.7	181
62	Highly Emissive Self-Trapped Excitons in Fully Inorganic Zero-Dimensional Tin Halides. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11329-11333	16.4	162
61	High-resolution remote thermometry and thermography using luminescent low-dimensional tin-halide perovskites. <i>Nature Materials</i> , <b>2019</b> , 18, 846-852	27	149
60	Single crystals of caesium formamidinium lead halide perovskites: solution growth and gamma dosimetry. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e373-e373	10.3	114

59	Low-Cost Synthesis of Highly Luminescent Colloidal Lead Halide Perovskite Nanocrystals by Wet Ball Milling. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 1300-1308	5.6	104
58	Guanidinium-Formamidinium Lead Iodide: A Layered Perovskite-Related Compound with Red Luminescence at Room Temperature. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3850-3853	16.4	98
57	Luminescent and Photoconductive Layered Lead Halide Perovskite Compounds Comprising Mixtures of Cesium and Guanidinium Cations. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11552-11564	5.1	96
56	Bright Blue and Green Luminescence of Sb(III) in Double Perovskite CsMInCl (M = Na, K) Matrices. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5118-5124	9.6	80
55	Manganese(II) in Tetrahedral Halide Environment: Factors Governing Bright Green Luminescence. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10161-10169	9.6	78
54	Hydrogen-bonded organic semiconductor micro- and nanocrystals: from colloidal syntheses to (opto-)electronic devices. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16522-32	16.4	61
53	Quasi-epitaxial Metal-Halide Perovskite Ligand Shells on PbS Nanocrystals. <i>ACS Nano</i> , <b>2017</b> , 11, 1246-1256	16.7	60
52	High infrared photoconductivity in films of arsenic-sulfide-encapsulated lead-sulfide nanocrystals. <i>ACS Nano</i> , <b>2014</b> , 8, 12883-94	16.7	54
51	Localized holes and delocalized electrons in photoexcited inorganic perovskites: Watching each atomic actor by picosecond X-ray absorption spectroscopy. <i>Structural Dynamics</i> , <b>2017</b> , 4, 044002	3.2	52
50	Photovoltaic properties of thin film heterojunctions with cupric oxide absorber. <i>Journal of Renewable and Sustainable Energy</i> , <b>2013</b> , 5, 011205	2.5	52
49	Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells. <i>Science Advances</i> , <b>2017</b> , 3, eaaq0208	14.3	51
48	Infrared Emitting PbS Nanocrystal Solids through Matrix Encapsulation. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4256-4264	9.6	42
47	Random Lasing with Systematic Threshold Behavior in Films of CdSe/CdS Core/Thick-Shell Colloidal Quantum Dots. <i>ACS Nano</i> , <b>2015</b> , 9, 9792-801	16.7	41
46	A Small Cationic Organo-Copper Cluster as Thermally Robust Highly Photo- and Electroluminescent Material. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 373-381	16.4	41
45	Supramolecular Approach for Fine-Tuning of the Bright Luminescence from Zero-Dimensional Antimony(III) Halides <b>2020</b> , 2, 845-852		38
44	Nanoprinted Quantum Dot/Graphene Photodetectors. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900019	8.1	37
43	Colloidal CdSe Quantum Wells with Graded Shell Composition for Low-Threshold Amplified Spontaneous Emission and Highly Efficient Electroluminescence. <i>ACS Nano</i> , <b>2019</b> , 13, 13899-13909	16.7	35
42	Hybrid 0D Antimony Halides as Air-Stable Luminophores for High-Spatial-Resolution Remote Thermography. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007355	24	35

41	Non-dissipative internal optical filtering with solution-grown perovskite single crystals for full-colour imaging. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e431-e431	10.3	33
40	Highly Emissive Self-Trapped Excitons in Fully Inorganic Zero-Dimensional Tin Halides. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11499-11503	3.6	31
39	The Rb Bi Sb Cl Family: A Fully Inorganic Solid Solution with Room-Temperature Luminescent Members. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14490-14497	16.4	30
38	Squaraine Dye for a Visibly Transparent All-Organic Optical Upconversion Device with Sensitivity at 1000 nm. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11063-11069	9.5	30
37	EUV micropatterning for biocompatibility control of PET. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 100, 511-516	2.6	28
36	Microcarrier-Assisted Inorganic Shelling of Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2019</b> , 13, 11642-11652	16.7	26
35	Dynamics of Spreading and Alignment of Cells Cultured In Vitro on a Grooved Polymer Surface. <i>Journal of Nanomaterials</i> , <b>2011</b> , 2011, 1-10	3.2	23
34	Nano-domains assisted energy transfer in amphiphilic polymer conetworks for wearable luminescent solar concentrators. <i>Nano Energy</i> , <b>2020</b> , 76, 105039	17.1	20
33	Host-guest chemistry for tuning colloidal solubility, self-organization and photoconductivity of inorganic-capped nanocrystals. <i>Nature Communications</i> , <b>2015</b> , 6, 10142	17.4	20
32	Radiative lifetime-encoded unicolour security tags using perovskite nanocrystals. <i>Nature Communications</i> , <b>2021</b> , 12, 981	17.4	19
31	Design and Synthesis of Heteroleptic Iridium(III) Phosphors for Efficient Organic Light-Emitting Devices. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 15304-15313	5.1	18
30	Hypothesis of Dye Aggregation in a Nematic Liquid Crystal: From Experiment to a Model of the Enhanced Light-Director Interaction. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 454, 145/[547]-156/[558]	0.5	18
29	Guanidinium and Mixed Cesium-Guanidinium Tin(II) Bromides: Effects of Quantum Confinement and Out-of-Plane Octahedral Tilting. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2121-2129	9.6	18
28	Tunability and Scalability of Single-Atom Catalysts Based on Carbon Nitride. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5223-5230	8.3	17
27	Techniques to Characterize the Nonlinear Optical Response of Doped Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , <b>2005</b> , 426, 231-241	0.5	17
26	Colloidal HgTe Quantum Dot/Graphene Phototransistor with a Spectral Sensitivity Beyond 3 μm. <i>Advanced Science</i> , <b>2021</b> , 8, 2003360	13.6	17
25	Strongly Red-Shifted Photoluminescence Band Induced by Molecular Twisting in Cyanine (Cy3) Dye Films. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 9587-9593	3.8	16
24	Deposition, characterization and biological application of epitaxial Li:ZnO/Al:ZnO double-layers. <i>Thin Solid Films</i> , <b>2009</b> , 518, 1350-1354	2.2	15

23	Spectral and non-linear optical properties of cyanine bases and derivatives of benzo[c,d]indole. <i>Dyes and Pigments</i> , <b>2007</b> , 74, 195-201	4.6	14
22	Iodide-capped PbS quantum dots: full optical characterization of a versatile absorber. <i>Advanced Materials</i> , <b>2015</b> , 27, 1533-9	24	12
21	Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. <i>ACS Nano</i> , <b>2020</b> , 14, 14686-14697	16.7	12
20	Microgrinding of lensed fibers by means of a scanning-probe microscope setup. <i>Applied Optics</i> , <b>2009</b> , 48, 6172-7	0.2	10
19	Highly Concentrated, Zwitterionic Ligand-Capped Mn:CsPb(Br Cl ) Nanocrystals as Bright Scintillators for Fast Neutron Imaging.. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 4365-4373	20.1	10
18	Dynamics of the Alignment of Mammalian Cells on a Nano-Structured Polymer Surface. <i>Macromolecular Symposia</i> , <b>2010</b> , 296, 272-277	0.8	8
17	Sign inversion of the optical torque on the nematic director enhanced by anthraquinone dye dopants stable to the light action. <i>Laser Physics Letters</i> , <b>2006</b> , 3, 531-535	1.5	8
16	Enhanced Room-Temperature Photoluminescence Quantum Yield in Morphology Controlled J-Aggregates. <i>Advanced Science</i> , <b>2021</b> , 8, 1903080	13.6	8
15	Selfaction effects of femtosecond laser pulses in dye-doped 5CB liquid crystal. <i>Laser Physics Letters</i> , <b>2006</b> , 3, 357-361	1.5	7
14	Shortwave infrared-absorbing squaraine dyes for all-organic optical upconversion devices. <i>Science and Technology of Advanced Materials</i> , <b>2021</b> , 22, 194-204	7.1	6
13	Laser microstructuring of photomodified fluorinated ethylene propylene surface for confined growth of Chinese hamster ovary cells and single cell isolation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 170-6	3.5	5
12	Temperature-Dependent Charge Carrier Transfer in Colloidal Quantum Dot/Graphene Infrared Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 848-856	9.5	5
11	Laser Patterning of High-Mass-Loading Graphite Anodes for High-Performance Li-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 464-468	5.6	5
10	Short-wave infrared colloidal quantum dot photodetectors on silicon <b>2013</b> ,		4
9	. <i>Ukrainian Journal of Physical Optics</i> , <b>2006</b> , 7, 116-123	1.2	4
8	Superweak Coordinating Anion as Superstrong Enhancer of Cyanine Organic Semiconductor Properties. <i>ChemPhysChem</i> , <b>2018</b> , 19, 3356-3363	3.2	4
7	The Rb <sub>7</sub> Bi <sub>3</sub> Sb <sub>3</sub> Cl <sub>16</sub> Family: A Fully Inorganic Solid Solution with Room-Temperature Luminescent Members. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14598-14605	3.6	3
6	Aggregation of Anthraquinone Dye Molecules in a Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , <b>2014</b> , 589, 96-104	0.5	3

5	Probing the molecular character of periodic mesoporous organosilicates via photoluminescence of Lewis acid-base adducts. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13746-9	3.6	3
4	Lone-Pair-Induced Structural Ordering in the Mixed-Valent 0D Metal-Halides RbBi Sb Sb Cl (0 $\text{IV}$ ). <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2408-2419	9.6	2
3	Amphiphilic Polymer Co-Network: A Versatile Matrix for Tailoring the Photonic Energy Transfer in Wearable Energy Harvesting Devices. <i>Advanced Energy Materials</i> , 2200441	21.8	2
2	Nanosecond Laser Pulse-Induced Refractive Index Changes in Anthraquinone-Doped Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 496, 310-321	0.5	1
1	Luminescent Lead Halide Ionic Liquids for High-Spatial-Resolution Fast Neutron Imaging. <i>ACS Photonics</i> , <b>2021</b> , 8, 3357-3364	6.3	1