

# Aram Kostanyan

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

751  
citations

759233

12  
h-index

794594

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single molecule magnet with an unpaired electron trapped between two lanthanide ions inside a fullerene. <i>Nature Communications</i> , 2017, 8, 16098.	12.8	189
2	Air-stable redox-active nanomagnets with lanthanide spins radical-bridged by a metal–metal bond. <i>Nature Communications</i> , 2019, 10, 571.	12.8	112
3	Triangular Monometallic Cyanide Cluster Entrapped in Carbon Cage with Geometry-Dependent Molecular Magnetism. <i>Journal of the American Chemical Society</i> , 2016, 138, 14764-14771.	13.7	85
4	Methane as a Selectivity Booster in the Arc-Discharge Synthesis of Endohedral Fullerenes: Selective Synthesis of the Single-Molecule Magnet $\text{Dy}_2\text{TiC}@C_{80}$ and Its Congener $\text{Dy}_2\text{TiC}@C_{80}$ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13411-13415.	13.8	74
5	Mononuclear Clusterfullerene Single-Molecule Magnet Containing Strained Fused Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1830-1834.	13.8	64
6	Selective arc-discharge synthesis of $\text{Dy}_2\text{S}$ -clusterfullerenes and their isomer-dependent single molecule magnetism. <i>Chemical Science</i> , 2017, 8, 6451-6465.	7.4	58
7	Strong carbon cage influence on the single molecule magnetism in $\text{Dy-Sc}$ nitride clusterfullerenes. <i>Chemical Communications</i> , 2018, 54, 9730-9733.	4.1	23
8	Single-Molecule Magnets $\text{DyM}_2\text{N}@C_{80}$ and $\text{Dy}_2\text{MN}@C_{80}$ (M=Sc, Lu): The Impact of Diamagnetic Metals on $\text{Dy}^{3+}$ Magnetic Anisotropy, $\text{Dy}^{\dots}\text{Dy}$ Coupling, and Mixing of Molecular and Lattice Vibrations. <i>Chemistry - A European Journal</i> , 2020, 26, 2436-2449.	3.3	23
9	Mononuclear Clusterfullerene Single-Molecule Magnet Containing Strained Fused Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. <i>Angewandte Chemie</i> , 2017, 129, 1856-1860.	2.0	21
10	Controlled Oxidation and Self-Passivation of Bimetallic Magnetic FeCr and FeMn Aerosol Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16083-16090.	3.1	19
11	Switching Molecular Conformation with the Torque on a Single Magnetic Moment. <i>Physical Review Letters</i> , 2017, 119, 237202.	7.8	16
12	Partial magnetic ordering in one-dimensional arrays of endofullerene single-molecule magnet peapods. <i>Nanoscale</i> , 2018, 10, 18153-18160.	5.6	15
13	Magnetic hysteresis and strong ferromagnetic coupling of sulfur-bridged Dy ions in clusterfullerene $\text{Dy}_2\text{S}@C_{82}$ . <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3521-3532.	6.0	12
14	Sub-Kelvin hysteresis of the dilanthanide single-molecule magnet $\text{Tb}_2\text{C}@C_{80}$ . <i>Physical Review B</i> , 2020, 101, .	3.2	10
15	Large exchange bias in Cr substituted $\text{Fe}_3\text{O}_4$ nanoparticles with FeO subdomains. <i>Nanoscale</i> , 2021, 13, 15844-15852.	5.6	6
16	Gadolinium as an accelerator for reaching thermal equilibrium and its influence on the ground state of $\text{Dy}_2\text{C}@C_{80}$ single-molecule magnets. <i>Physical Review B</i> , 2021, 103, .	3.2	6
17	Precise measurement of angles between two magnetic moments and their configurational stability in single-molecule magnets. <i>Physical Review B</i> , 2021, 104, .	3.2	5
18	Nanoscale x-ray investigation of magnetic metallofullerene peapods. <i>Nanotechnology</i> , 2017, 28, 435703.	2.6	4