

Daniel Chevrier

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,609
citations

236925

25
h-index

265206

42
g-index

48
all docs

48
docs citations

48
times ranked

5979
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein-protected metal nanoclusters as diagnostic and therapeutic platforms for biomedical applications. <i>Materials Today</i> , 2023, 66, 159-193.	14.2	59
2	Synchrotron-Based Nano-X-Ray Absorption Near-Edge Structure Revealing Intracellular Heterogeneity of Iron Species in Magnetotactic Bacteria. <i>Small Science</i> , 2022, 2, .	9.9	9
3	Wettability of Magnetite Nanoparticles Guides Growth from Stabilized Amorphous Ferrihydrite. <i>Journal of the American Chemical Society</i> , 2021, 143, 10963-10969.	13.7	15
4	Catalytic and photoresponsive BiZn/CuS heterojunctions with surface vacancies for the treatment of multidrug-resistant clinical biofilm-associated infections. <i>Nanoscale</i> , 2021, 13, 18632-18646.	5.6	9
5	Interactions between Ultrastable Na ₄ Ag ₄₄ (SR) ₃₀ Nanoclusters and Coordinating Solvents: Uncovering the Atomic-Scale Mechanism. <i>ACS Nano</i> , 2020, 14, 8433-8441.	14.6	14
6	Doxorubicin-loaded polyphosphate glass microspheres for transarterial chemoembolization. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2621-2632.	3.4	0
7	Short-Range Structure of Amorphous Calcium Hydrogen Phosphate. <i>Crystal Growth and Design</i> , 2019, 19, 3030-3038.	3.0	35
8	Luminescent Au(I)-Thiolate Complexes through Aggregation-Induced Emission: The Effect of pH during and Post Synthesis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6010-6017.	3.1	30
9	Structure and formation of highly luminescent protein-stabilized gold clusters. <i>Chemical Science</i> , 2018, 9, 2782-2790.	7.4	76
10	Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters. <i>Journal of the American Chemical Society</i> , 2018, 140, 15430-15436.	13.7	90
11	A DNA-Encapsulated and Fluorescent Ag ₁₀ ⁶⁺ Cluster with a Distinct Metal-Like Core. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14936-14945.	3.1	27
12	Novel nanoporous N-doped carbon-supported ultrasmall Pd nanoparticles: Efficient catalysts for hydrogen storage and release. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 820-828.	20.2	80
13	Bonding properties of FCC-like Au ₄₄ (SR) ₂₈ clusters from X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1220-1224.	1.1	7
14	An intrinsic dual-emitting gold thiolate coordination polymer, [Au(+I)(p-SPhCO ₂ H)] _n , for ratiometric temperature sensing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9843-9848.	5.5	30
15	Wasser als Schlüssel zu amorphem Proto-Aragonit-CaCO ₃ . <i>Angewandte Chemie</i> , 2016, 128, 8249-8252.	2.0	8
16	Water as the Key to Proto-Aragonite Amorphous CaCO ₃ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8117-8120.	13.8	78
17	A Segregated, Partially Oxidized, and Compact Ag ₁₀ Cluster within an Encapsulating DNA Host. <i>Journal of the American Chemical Society</i> , 2016, 138, 3469-3477.	13.7	70
18	Photochemical route for synthesizing atomically dispersed palladium catalysts. <i>Science</i> , 2016, 352, 797-800.	12.6	1,540

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19	Distinct Short-Range Order Is Inherent to Small Amorphous Calcium Carbonate Clusters ($\approx 2\text{ nm}$). <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12206-12209.	13.8	47
20	Gold-Shell Nanoparticles Produced by Pulsed Laser Ablation in Water. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22635-22645.	3.1	13
21	Ausgeprägte Nahordnung in kleinen amorphen Calciumcarbonat-Clustern ($\approx 2\text{ nm}$). <i>Angewandte Chemie</i> , 2016, 128, 12393-12397.	2.0	2
22	Electro-Oxidation of Ni-Steel: A Highly Active Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2016, 26, 6402-6417.	14.9	90
23	X ₂₀ CoCrWMo ₁₀₋₉ /Co ₃ O ₄ : a metal-ceramic composite with unique efficiency values for water-splitting in the neutral regime. <i>Energy and Environmental Science</i> , 2016, 9, 2609-2622.	30.8	84
24	Structure and Bonding Properties of a 20-Gold-Atom Nanocluster Studied by Theoretical X-ray Absorption Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1802, 33-39.	0.1	1
25	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13312-13317.	13.8	64
26	Disordered amorphous calcium carbonate from direct precipitation. <i>CrystEngComm</i> , 2015, 17, 4842-4849.	2.6	67
27	Description and Role of Bimetallic Prenucleation Species in the Formation of Small Nanoparticle Alloys. <i>Journal of the American Chemical Society</i> , 2015, 137, 15852-15858.	13.7	40
28	Role of Au ₄ Units on the Electronic and Bonding Properties of Au ₂₈ (SR) ₂₀ Nanoclusters from X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1217-1223.	3.1	32
29	Bonding properties of thiolate-protected gold nanoclusters and structural analogs from X-ray absorption spectroscopy. <i>Nanotechnology Reviews</i> , 2015, 4, 193-206.	5.8	30
30	Multishell EXAFS Fitting Analysis of a Compositionally Precise Thiolate-Gold Nanocluster. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1655, 1.	0.1	0
31	Identification of a Highly Luminescent Au ₂₂ (SG) ₁₈ Nanocluster. <i>Journal of the American Chemical Society</i> , 2014, 136, 1246-1249.	13.7	490
32	Impact of the Selenolate Ligand on the Bonding Behavior of Au ₂₅ Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21730-21737.	3.1	14
33	Following the Thermal Activation of Au ₂₅ (SR) ₁₈ Clusters for Catalysis by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20007-20016.	3.1	66
34	Unique Bonding Properties of the Au ₃₆ (SR) ₂₄ Nanocluster with FCC-Like Core. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3186-3191.	4.6	43
35	Germanate with Three-Dimensional 12 Å – 12 Å – 11-Ring Channels Solved by X-ray Powder Diffraction with Charge-Flipping Algorithm. <i>Inorganic Chemistry</i> , 2013, 52, 10238-10244.	4.0	9
36	A Comparative XAFS Study of Gold-thiolate Nanoparticles and Nanoclusters. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012029.	0.4	8

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37	Properties and applications of protein-stabilized fluorescent gold nanoclusters: short review. Journal of Nanophotonics, 2012, 6, 064504.	1.0	147
38	Theoretical studies on clusters of carbonate with carbon dioxide, $\text{CO}_3^{1-}(\text{CO}_2)_n$, for $n = 1-5$. Comparison of carbonate clusters with sulfate clusters. Canadian Journal of Chemistry, 2012, 90, 483-492.	1.1	2
39	Sensitivity of Structural and Electronic Properties of Gold-Thiolate Nanoclusters to the Atomic Composition: A Comparative X-ray Study of $\text{Au}_{19}(\text{SR})_{13}$ and $\text{Au}_{25}(\text{SR})_{18}$. Journal of Physical Chemistry C, 2012, 116, 25137-25142.	3.1	34
40	Theoretical studies on anionic clusters of sulfate anions and carbon dioxide, $\text{SO}_4^{1-}(\text{CO}_2)_n$, $n=1-4$. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	4
41	The Structure and Bonding of $\text{Au}_{25}(\text{SR})_{18}$ Nanoclusters from EXAFS: The Interplay of Metallic and Molecular Behavior. Journal of Physical Chemistry C, 2011, 115, 15282-15287.	3.1	114