

George Volonakis

List of Publications by Year in descending order

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37
papers

3,290
citations

471477

17
h-index

395678

33
g-index

37
all docs

37
docs citations

37
times ranked

5191
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , 2016, 354, 861-865.	12.6	1,107
2	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1254-1259.	4.6	761
3	Cs ₂ InAgCl ₆ : A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 772-778.	4.6	752
4	Route to Stable Lead-Free Double Perovskites with the Electronic Structure of CH ₃ NH ₃ PbI ₃ : A Case for Mixed-Cation [Cs/CH ₃ NH ₃]/CH(NH ₂) ₂ InBiBr ₆ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3917-3924.	4.6	82
5	Graphene-based technologies for energy applications, challenges and perspectives. <i>2D Materials</i> , 2015, 2, 030204.	4.4	74
6	Ferroelectric Graphene-Perovskite Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2496-2502.	4.6	67
7	Surface properties of lead-free halide double perovskites: Possible visible-light photo-catalysts for water splitting. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	46
8	Excess of boron in TiB ₂ superhard thin films: a combined experimental and ab initio study. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 385402.	2.8	39
9	Oxide Analogs of Halide Perovskites and the New Semiconductor Ba ₂ AgIO ₆ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1722-1728.	4.6	36
10	Ruddlesden-Popper Phase Hybrid Halide Perovskite/Small Molecule Organic Blend Memory Transistors. <i>Advanced Materials</i> , 2021, 33, e2003137.	21.0	32
11	Phonon-Limited Mobility and Electron-Phonon Coupling in Lead-Free Halide Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4474-4482.	4.6	30
12	Electronic structure and stability of Cs ₂ TiX ₆ and Cs ₂ ZrX ₆ (X = Br, I) vacancy ordered double perovskites. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	28
13	Intrinsic quantum confinement in formamidinium lead triiodide perovskite. <i>Nature Materials</i> , 2020, 19, 1201-1206.	27.5	26
14	Graphene Oxide/Perovskite Interfaces For Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16715-16726.	3.1	22
15	Electronic and structural properties of TiB ₂ : Bulk, surface, and nanoscale effects. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 484-489.	3.5	20
16	High-Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCN Nanowire Heterointerface. <i>Advanced Science</i> , 2018, 5, 1700980.	11.2	19
17	Crystallographic, Optical, and Electronic Properties of the Cs ₂ AgBi _{1-x} In _x Br ₆ Double Perovskite: Understanding the Fundamental Photovoltaic Efficiency Challenges. <i>ACS Energy Letters</i> , 2021, 6, 1073-1081.	17.4	19
18	Interfaces Between Graphene-Related Materials and MAPbI ₃ : Insights from First-Principles. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800496.	3.7	15

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19	Impurity-related effects in poly(3-hexylthiophene) crystals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25557-25563.	2.8	13
20	Slot-Die-Printed Two-Dimensional ZrS ₃ Charge Transport Layer for Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48021-48028.	8.0	13
21	Quasiparticle Band Structure and Phonon-Induced Band Gap Renormalization of the Lead-Free Halide Double Perovskite Cs ₂ InAgCl ₆ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 21689-21700.	3.1	13
22	Pb-free halide perovskites for solar cells, light-emitting diodes, and photocatalysts. <i>APL Materials</i> , 2022, 10, .	5.1	11
23	Impurity-related degradation in a prototype organic photovoltaic material: A first-principles study. <i>Organic Electronics</i> , 2013, 14, 1242-1248.	2.6	10
24	Origin of the High Specific Capacity in Sodium Manganese Hexacyanomanganate. <i>Chemistry of Materials</i> , 2022, 34, 4336-4343.	6.7	9
25	Electronic Structure and Electron-Transport Properties of Three Metal Hexacyanoferrates. <i>Chemistry of Materials</i> , 2021, 33, 7067-7074.	6.7	8
26	Natural torsion in chiral single-wall carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 485302.	1.8	7
27	Continuous transformations of C ₆₀ crystals: polymorphs, polymers, and the ideal strength of fullerenes. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 435303.	1.8	6
28	Hybrid Halide Perovskites: Fundamental Theory and Materials Design. , 2018, , 1-30.		5
29	Ordered Mixed-Spacer 2D Bromide Perovskites and the Dual Role of 1,2,4-Triazolium Cation. <i>Chemistry of Materials</i> , 2022, 34, 6541-6552.	6.7	5
30	Electromechanical switch based on pentaheptite nanotubes. <i>Physical Review B</i> , 2007, 76, .	3.2	4
31	Continuous transformation paths for the molecular crystals of the PCBM fullerene derivative. <i>Synthetic Metals</i> , 2012, 162, 2421-2427.	3.9	4
32	On the Pentaheptite Nanotubes. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1124-1126.	4.7	3
33	Hybrid Halide Perovskites: Fundamental Theory and Materials Design. , 2020, , 295-324.		2
34	Impurity-related vibrational modes in a pentacene crystal. <i>EPJ Applied Physics</i> , 2011, 55, 23903.	0.7	1
35	Halide Perovskites: Interfaces Between Graphene-Related Materials and MAPbI ₃ : Insights from First-Principles (<i>Adv. Mater. Interfaces</i> 22/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870110.	3.7	1
36	Pentaheptite Allotropes Of Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Structural and electronic properties of fullerene-based organic materials. , 2015, , 37-56.		0