

Sai Manoj Gali

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Electronic and Transport Properties in Defective MoS ₂ : Impact of Sulfur Vacancies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15076-15084.	3.1	46
2	Band transport by large Fröhlich polarons in MXenes. <i>Nature Physics</i> , 2022, 18, 544-550.	16.7	40
3	Organic capping Effect and mechanism in Mn-doped CdS nanocomposites. <i>Physica B: Condensed Matter</i> , 2010, 405, 1253-1257.	2.7	31
4	Unusual electromechanical response in rubrene single crystals. <i>Materials Horizons</i> , 2018, 5, 41-50.	12.2	28
5	Ultrafast and Highly Sensitive Chemically Functionalized Graphene Oxide-Based Humidity Sensors: Harnessing Device Performances via the Supramolecular Approach. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44017-44025.	8.0	28
6	Collective Dipole-Dominated Doping of Monolayer MoS ₂ : Orientation and Magnitude Control via the Supramolecular Approach. <i>Advanced Functional Materials</i> , 2020, 30, 2002846.	14.9	27
7	2D MXene-Molecular Hybrid Additive for High-Performance Ambipolar Polymer Field-Effect Transistors and Logic Gates. <i>Advanced Materials</i> , 2021, 33, e2008215.	21.0	26
8	Interlayer Bonding in Two-Dimensional Materials: The Special Case of SnP ₃ and GeP ₃ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4503-4510.	4.6	24
9	Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. <i>Nanoscale</i> , 2020, 12, 12383-12394.	5.6	23
10	Molecular Functionalization of Chemically Active Defects in WSe ₂ for Enhanced Optoelectronics. <i>Advanced Functional Materials</i> , 2020, 30, 2005045.	14.9	22
11	Divanillin-Based Polyazomethines: Toward Biobased and Metal-Free π -Conjugated Polymers. <i>ACS Omega</i> , 2020, 5, 5176-5181.	3.5	22
12	Energetic fluctuations in amorphous semiconducting polymers: Impact on charge-carrier mobility. <i>Journal of Chemical Physics</i> , 2017, 147, 134904.	3.0	21
13	Ambipolarity and Dimensionality of Charge Transport in Crystalline Group 14 Phthalocyanines: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2554-2563.	3.1	20
14	Light-Programmable Logic-in-Memory in 2D Semiconductors Enabled by Supramolecular Functionalization: Photoresponsive Collective Effect of Aligned Molecular Dipoles. <i>ACS Nano</i> , 2021, 15, 13732-13741.	14.6	18
15	Molecular Doping of 2D Indium Selenide for Ultrahigh Performance and Low-Power Consumption Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2103353.	14.9	17
16	Application of Rubrene Air-Gap Transistors as Sensitive MEMS Physical Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41570-41577.	8.0	10
17	Impact of structural anisotropy on electro-mechanical response in crystalline organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4382-4391.	5.5	10
18	Coplanar versus Noncoplanar Carboxyl Groups: The Influence of Sterically Enforced Noncoplanarity on the 2D Mixing Behavior of Benzene Tricarboxylic Acids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24874-24882.	3.1	9

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19	Tuning Short Contacts between Polymer Chains To Enhance Charge Transport in Amorphous Donor–Acceptor Polymers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3118-3126.	3.1	8
20	Atomistic simulations of charge transport in photoswitchable organic-graphene hybrids. <i>JPhys Materials</i> , 2019, 2, 035001.	4.2	7
21	Combined healing and doping of transition metal dichalcogenides through molecular functionalization. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16247-16256.	5.5	7
22	Molecular Packing of Phenoxazine: A Combined Single-Crystal/Crystal Structure Prediction Study. <i>Crystal Growth and Design</i> , 0, , .	3.0	1