

# Sajid Ali

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

1,422  
citations

567281

15  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable and high-purity room temperature single-photon emission from atomic defects in hexagonal boron nitride. <i>Nature Communications</i> , 2017, 8, 705.	12.8	351
2	Recent progress of the Computational 2D Materials Database (C2DB). <i>2D Materials</i> , 2021, 8, 044002.	4.4	218
3	First-principles investigation of quantum emission from hBN defects. <i>Nanoscale</i> , 2017, 9, 13575-13582.	5.6	167
4	Defect states in hexagonal boron nitride: Assignments of observed properties and prediction of properties relevant to quantum computation. <i>Physical Review B</i> , 2018, 97, .	3.2	125
5	Single photon emission from plasma treated 2D hexagonal boron nitride. <i>Nanoscale</i> , 2018, 10, 7957-7965.	5.6	107
6	Single-photon emitters in hexagonal boron nitride: a review of progress. <i>Reports on Progress in Physics</i> , 2020, 83, 044501.	20.1	104
7	Understanding and Calibrating Density-Functional-Theory Calculations Describing the Energy and Spectroscopy of Defect Sites in Hexagonal Boron Nitride. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1602-1613.	5.3	69
8	$V_N C_B$ defect as source of single photon emission from hexagonal boron nitride. <i>2D Materials</i> , 2020, 7, 031007.	4.4	52
9	Controlled generation of luminescent centers in hexagonal boron nitride by irradiation engineering. <i>Science Advances</i> , 2021, 7, .	10.3	51
10	Quantum point defects in 2D materials - the QPOD database. <i>Npj Computational Materials</i> , 2022, 8, .	8.7	30
11	Edge effects on optically detected magnetic resonance of vacancy defects in hexagonal boron nitride. <i>Communications Physics</i> , 2020, 3, .	5.3	28
12	A novel mechano-chemical synthesis route for fluorination of hexagonal boron nitride nanosheets. <i>Ceramics International</i> , 2019, 45, 19173-19181.	4.8	21
13	Cheap, reliable, reusable, thermally and chemically stable fluorinated hexagonal boron nitride nanosheets coated Au nanoparticles substrate for surface enhanced Raman spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127394.	7.8	21
14	Synthesis and characterization of MXene/ BiCr2O4 nanocomposite with excellent electrochemical properties. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2007-2015.	5.8	21
15	<a href="http://www.w3.org/1998/Math/MathML">Theoretical spectroscopy of the <math>V_N C_B</math> defect in hexagonal boron nitride</a> $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} < \text{mml:mrow} > < \text{mml:msub} > < \text{mml:mi} < \text{mathvariant="normal"} > V < \text{mml:mi} > < \text{mml:mi} < \text{mathvariant="normal"} > N < \text{mml:mi} > < \text{mml:msub} > < \text{mml:mi} < \text{mathvariant="normal"} > N < \text{mml:mi} > < \text{mml:mi} < \text{mathvariant="normal"} > B < \text{mml:mi} > < \text{mml:msub} > < \text{mml:mrow} > < \text{mml:math} > \text{defect in hexagonal boron nitride}$	3.2	17
16	Synthesis and characterization of graphene oxide-based nanocomposite NaCr2O4 /GO for electrochemical applications. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6287-6294.	5.8	14
17	Visible-light driven photo-catalytic performance of novel composite of TiO2 and fluorinated hexagonal boron nitride nanosheets. <i>Ceramics International</i> , 2021, 47, 10089-10095.	4.8	11
18	Coprecipitation synthesis and microstructure characterization of nanocomposite SrCr2O4/MXene. <i>Materials Science in Semiconductor Processing</i> , 2022, 140, 106407.	4.0	9

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19	Fluorinated hexagonal boron nitride as a spacer with silver nanorods for surface enhanced Raman spectroscopy analysis. <i>Ceramics International</i> , 2021, 47, 6528-6534.	4.8	6