

# H S S Ramakrishna Matte

## List of Publications by Year in descending order

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43  
papers

6,594  
citations

236833

25  
h-index

265120

42  
g-index

48  
all docs

48  
docs citations

48  
times ranked

11553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous formation of gold nanoparticles on MoS <sub>2</sub> nanosheets and its impact on solution-processed optoelectronic devices. <i>IScience</i> , 2022, 25, 104120.	1.9	5
2	Solution-Processed h-BN Film as an Alignment Layer for Liquid Crystal Devices: Realization of a Non-Polymer Approach for Unidirectional Alignment over Unprecedentedly Large Areas. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	2
3	Waste to wealth: spent catalyst as an efficient and stable bifunctional oxygen electrocatalyst for zinc-air batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1406-1414.	2.5	8
4	Additive-free Aqueous Dispersions of Two-Dimensional Materials with Glial Cell Compatibility and Enzymatic Degradability. <i>Chemistry - A European Journal</i> , 2021, 27, 7434-7443.	1.7	5
5	Solution Processing of Topochemically Converted Layered WO <sub>3</sub> for Multifunctional Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 11326-11334.	1.7	4
6	Unveiling the effect of the crystalline phases of iron oxyhydroxide for highly sensitive and selective detection of dopamine. <i>Dalton Transactions</i> , 2021, 50, 13497-13504.	1.6	5
7	Role of Transition Metals in Layered Double Hydroxides for Differentiating the Oxygen Evolution and Nonenzymatic Glucose Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6193-6204.	4.0	48
8	Exfoliation in a low boiling point solvent and electrochemical applications of MoO <sub>3</sub> . <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 662-670.	1.5	8
9	Ordered Donor-Acceptor Complex Formation and Electron Transfer in Co-deposited Films of Structurally Dissimilar Molecules. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11023-11031.	1.5	6
10	Solution-Processed Layered Hexagonal Boron Nitride Dielectrics: A Route toward Fabrication of High Performance Flexible Devices. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2130-2139.	2.0	17
11	Highly concentrated and stabilizer-free transition-metal dichalcogenide dispersions in low-boiling point solvent for flexible electronics. <i>Nanoscale</i> , 2019, 11, 10746-10755.	2.8	20
12	Effects of Crystalline Perylenediimide Acceptor Morphology on Optoelectronic Properties and Device Performance. <i>Chemistry of Materials</i> , 2016, 28, 3928-3936.	3.2	45
13	Ring-fusion as a perylenediimide dimer design concept for high-performance non-fullerene organic photovoltaic acceptors. <i>Chemical Science</i> , 2016, 7, 3543-3555.	3.7	168
14	Slip-Stacked Perylenediimides as an Alternative Strategy for High Efficiency Nonfullerene Acceptors in Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2014, 136, 16345-16356.	6.6	320
15	Graphene composites containing chemically bonded metal oxides. <i>Bulletin of Materials Science</i> , 2013, 36, 585-590.	0.8	5
16	Graphene Analogues of Inorganic Layered Materials. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13162-13185.	7.2	441
17	Effect of high-temperature shock-wave compression on few-layer MoS <sub>2</sub> , WS <sub>2</sub> and MoSe <sub>2</sub> . <i>Chemical Physics Letters</i> , 2013, 582, 105-109.	1.2	39
18	Employing synergistic interactions between few-layer WS <sub>2</sub> and reduced graphene oxide to improve lithium storage, cyclability and rate capability of Li-ion batteries. <i>Nano Energy</i> , 2013, 2, 787-793.	8.2	226

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19	Hydrodesulfurization of Thiophene over Few-Layer MoS <sub>2</sub> Covered with Cobalt and Nickel Nanoparticles. ChemPlusChem, 2013, 78, 419-422.	1.3	19
20	Synthesis, Characterization, and Properties of Few-Layer MoO <sub>3</sub> . Chemistry - an Asian Journal, 2013, 8, 2430-2435.	1.7	104
21	Charge-Transfer Interaction between Few-Layer MoS <sub>2</sub> and Tetrathiafulvalene. Chemistry - an Asian Journal, 2013, 8, 1780-1784.	1.7	61
22	Layer-dependent resonant Raman scattering of a few layer MoS <sub>2</sub> . Journal of Raman Spectroscopy, 2013, 44, 92-96.	1.2	380
23	Synthesis and Selected Properties of Graphene and Graphene Mimics. Accounts of Chemical Research, 2013, 46, 149-159.	7.6	77
24	Unusual magnetic properties of graphene and related materials. Chemical Science, 2012, 3, 45-52.	3.7	140
25	Synthesis, Characterization, and Properties of Few-Layer Metal Dichalcogenides and their Nanocomposites with Noble Metal Particles, Polyaniline, and Reduced Graphene Oxide. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2617-2624.	0.6	41
26	Strategies for the Synthesis of Graphene, Graphene Nanoribbons, Nanoscrolls and Related Materials. Chimia, 2012, 66, 941.	0.3	44
27	Decoration of Few-Layer Graphene-Like MoS <sub>2</sub> and MoSe <sub>2</sub> by Noble Metal Nanoparticles. Journal of Cluster Science, 2012, 23, 929-937.	1.7	43
28	A covalently linked graphene-oligo(phenylenevinylene) adduct: self-organization and photo-physical properties. RSC Advances, 2012, 2, 6290.	1.7	10
29	Hysteresis in Single-Layer MoS <sub>2</sub> Field Effect Transistors. ACS Nano, 2012, 6, 5635-5641.	7.3	956
30	Recent progress in the synthesis of inorganic nanoparticles. Dalton Transactions, 2012, 41, 5089.	1.6	178
31	Rapid Characterization of Ultrathin Layers of Chalcogenides on SiO <sub>2</sub> /Si Substrates. Advanced Functional Materials, 2012, 22, 1894-1905.	7.8	436
32	GaS and GaSe Ultrathin Layer Transistors. Advanced Materials, 2012, 24, 3549-3554.	11.1	580
33	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. International Journal of Modern Physics B, 2011, 25, 4107-4143.	1.0	25
34	Graphene: Synthesis, Functionalization and Properties. , 2011, , 1-32.		1
35	Graphene analogues of layered metal selenides. Dalton Transactions, 2011, 40, 10322.	1.6	67
36	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. Modern Physics Letters B, 2011, 25, 427-451.	1.0	39

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37	Quenching of fluorescence of aromatic molecules by graphene due to electron transfer. Chemical Physics Letters, 2011, 506, 260-264.	1.2	135
38	Self-assembly of C60, SWNTs and few-layer graphene and their binary composites at the organic-aqueous interface. Journal of Colloid and Interface Science, 2011, 360, 249-255.	5.0	23
39	MoS <sub>2</sub> and WS <sub>2</sub> Analogues of Graphene. Angewandte Chemie - International Edition, 2010, 49, 4059-4062.	7.2	1,417
40	A study of the synthetic methods and properties of graphenes. Science and Technology of Advanced Materials, 2010, 11, 054502.	2.8	164
41	Two- and Three-Dimensional Hybrid Compounds Formed by 1,2-, 1,3- and 1,4-Cyclohexanedicarboxylates of Zinc. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1840-1847.	0.6	6
42	Inorganic-organic hybrid compounds exhibiting both magnetic order and non-linear optical properties. Solid State Communications, 2009, 149, 908-910.	0.9	5
43	Novel Magnetic Properties of Graphene: Presence of Both Ferromagnetic and Antiferromagnetic Features and Other Aspects. Journal of Physical Chemistry C, 2009, 113, 9982-9985.	1.5	252