

Chintamani Nagesa Ramachandra Rao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,464
papers

73,847
citations

127
h-index

216
g-index

1,549
ext. papers

77,829
ext. citations

5.2
avg, IF

8.14
L-index

#	Paper	IF	Citations
1464	Nanotubes from the Misfit Layered Compound (SmS)TaS: Atomic Structure, Charge Transfer, and Electrical Properties.. <i>Chemistry of Materials</i> , 2022 , 34, 1838-1853	9.6	2
1463	Nanocomposites of MoS ₂ nanoparticles with carboxyl-functionalized carbon nanotubes and borocarbonitrides nanosheets, and their electrocatalytic hydrogen evolution reaction activity. <i>Materials Research Bulletin</i> , 2022 , 149, 111697	5.1	2
1462	MetalInsulator Transitions in Stable V ₂ O ₃ Thin Films: Atomic Layer Deposition and Postdeposition Annealing Studies. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000565	2.5	1
1461	Why do nanocrystals of 2D materials form nanotubes and why is that important?. <i>Nano Today</i> , 2021 , 37, 101060	17.9	5
1460	Designing electrode materials for the electrochemical reduction of carbon dioxide. <i>Materials Horizons</i> , 2021 , 8, 2420-2443	14.4	3
1459	Nanocomposites of 1D MoS ₂ with Polymer-Functionalized Nanotubes of Carbon and Borocarbonitride, and Their HER Activity. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2339-2347	6.1	8
1458	Asymmetric misfit nanotubes: Chemical affinity outwits the entropy at high-temperature solid-state reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
1457	HER activity of nanosheets of 2D solid solutions of MoSe ₂ with MoS ₂ and MoTe ₂ . <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	3
1456	A study of two-dimensional PbFCl and BaFCl. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	2
1455	Superior Photocatalytic Hydrogen Evolution Performances of WS ₂ over MoS ₂ Integrated with CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14485-14495	3.8	17
1454	A Simple Chemical Route to Borocarbonitride Nanotubes. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1230-1232	2.3	3
1453	Hydrogen Generation by Solar Water Splitting Using 2D Nanomaterials. <i>Solar Rrl</i> , 2020 , 4, 2000050	7.1	15
1452	Chemical Route to Twisted Graphene, Graphene Oxide and Boron Nitride. <i>Chemistry - A European Journal</i> , 2020 , 26, 6499-6503	4.8	1
1451	Effect of magnetic field on the hydrogen evolution activity using non-magnetic Weyl semimetal catalysts. <i>Dalton Transactions</i> , 2020 , 49, 3398-3402	4.3	6
1450	Quaternary Ln _x La _(1-x) S-TaS ₂ nanotubes (Ln=Pr, Sm, Ho, and Yb) as a vehicle for improving the yield of misfit nanotubes. <i>Applied Materials Today</i> , 2020 , 19, 100581	6.6	4
1449	Layered Nanocomposites of Polymer-Functionalized Reduced Graphene Oxide and Borocarbonitride with MoS ₂ and MoSe ₂ and Their Hydrogen Evolution Reaction Activity. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1792-1799	5.6	19
1448	Simple synthesis of nanosheets of rGO and nitrogenated rGO. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 68-75	3	11

1447	Superlattices of covalently cross-linked 2D materials for the hydrogen evolution reaction. <i>APL Materials</i> , 2020 , 8, 020902	5.7	6
1446	Effect of Mn substitution on the structure, properties and HER activity of cadmium phosphochlorides.. <i>RSC Advances</i> , 2020 , 10, 5134-5145	3.7	1
1445	YS-TaS and YLaS-TaS (0 001) Nanotubes: A Family of Misfit Layered Compounds. <i>ACS Nano</i> , 2020 , 14, 5445-5458	16.7	7
1444	Photoelectrochemical OER activity by employing BiVO with manganese oxide co-catalysts. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 811-817	3.6	11
1443	Low thermal conductivity of 2D borocarbonitride nanosheets. <i>Journal of Solid State Chemistry</i> , 2020 , 282, 121105	3.3	11
1442	Design of efficient photocatalysts through band gap engineering 2020 , 1-18		1
1441	Elusive CoO: A Combined Experimental and Theoretical Study. <i>ACS Omega</i> , 2020 , 5, 29009-29016	3.9	1
1440	Metals and non-metals in the periodic table. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20200213	3	2
1439	1,4-Diazacubane crystal structure rectified as piperazinium. <i>Chemical Communications</i> , 2019 , 55, 11751-11753	14.853	2
1438	Photochemical HER activity of layered metal phospho-sulfides and -selenides. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22500-22506	13	21
1437	Stable functionalized phosphorenes with photocatalytic HER activity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6631-6637	13	32
1436	Hg ₂ NF, Analogue of HgO. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2397-2397	2.3	
1435	Growth of ReS ₂ thin films by pulsed laser deposition. <i>Thin Solid Films</i> , 2019 , 685, 81-87	2.2	5
1434	2D Elemental Nanomaterials Beyond Graphene. <i>ChemNanoMat</i> , 2019 , 5, 1062-1091	3.5	37
1433	Dependence of the Properties of 2D Nanocomposites Generated by Covalent Crosslinking of Nanosheets on the Interlayer Separation: A Combined Experimental and Theoretical Study. <i>ChemPhysChem</i> , 2019 , 20, 1728-1737	3.2	3
1432	Structural Features and HER activity of Cadmium Phosphohalides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6926-6931	16.4	5
1431	Supramolecularly Bonded Layered Heterostructures Exhibiting HER Activity. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1523-1529	4.5	2
1430	Compositional Tuning of Electrical and Optical Properties of PLD-Generated Thin Films of 2D Borocarbonitrides (BN) _{1-x} (C) _x . <i>ACS Applied Electronic Materials</i> , 2019 , 1, 569-576	4	5

- 1429 Structural Features and HER activity of Cadmium Phosphohalides. *Angewandte Chemie*, **2019**, 131, 7000-7005 1
- 1428 Hg₂NF, Analogue of HgO. *European Journal of Inorganic Chemistry*, **2019**, 2019, 2398-2403 2.3 1
- 1427 Defect-enriched tunability of electronic and charge-carrier transport characteristics of 2D borocarbonitride (BCN) monolayers from ab initio calculations. *Nanoscale*, **2019**, 11, 19398-19407 7.7 11
- 1426 Covalently Linked Heterostructures of Phosphorene with MoS/MoSe and Their Remarkable Hydrogen Evolution Reaction Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 27780-27787 9.5 37
- 1425 Li and Na-ion diffusion and intercalation characteristics in vertically aligned TiS₂ nanowall network grown using atomic layer deposition. *Materials Research Express*, **2019**, 1.7 4
- 1424 Novel inorganic materials generated by aliovalent anion substitution. *APL Materials*, **2019**, 7, 090901 5.7 3
- 1423 Highly tunable magnetic spirals and electric polarization in Gd_{0.5}Dy_{0.5}MnO₃. *Physical Review Materials*, **2019**, 3, 3.2 5
- 1422 Nanotubes **2019**, 1-26
- 1421 Graphene and Other 2D Materials **2019**, 27-54
- 1420 Generation of Hydrogen by Water Splitting **2019**, 376-398
- 1419 Borocarbonitrides, B_xC_yN_z, 2D Nanocomposites with Novel Properties. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 441-468 5.1 130
- 1418 In My Element: Oxygen. *Chemistry - A European Journal*, **2019**, 25, 14-15 4.8
- 1417 Borocarbonitrides as Metal-Free Catalysts for the Hydrogen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1803668 24 74
- 1416 Glimpses of 60 years of research in materials chemistry. *MRS Bulletin*, **2018**, 43, 220-226 3.2 2
- 1415 Solar Photochemical Splitting of Water **2018**, 365-391
- 1414 Phosphorene quantum dots. *Chemical Physics Letters*, **2018**, 699, 223-228 2.5 19
- 1413 Unique Features of the Photocatalytic Reduction of HO and CO by New Catalysts Based on the Analogues of CdS, CdPX (X = Cl, Br, I). *ACS Applied Materials & Interfaces*, **2018**, 10, 2526-2536 9.5 16
- 1412 Atomic layer deposition of crystalline epitaxial MoS₂ nanowall networks exhibiting superior performance in thin-film rechargeable Na-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 2302-2310 13 33

1411	Solar Photochemical Reduction and Oxidation of Water and Related Aspects. <i>Molecular Frontiers Journal</i> , 2018 , 02, 19-29	0.9	1
1410	Covalently Functionalized Nanoparticles of Semiconducting Metal Chalcogenides and Their Attributes. <i>ChemNanoMat</i> , 2018 , 4, 41-45	3.5	2
1409	Arsenene nanosheets and nanodots. <i>New Journal of Chemistry</i> , 2018 , 42, 14091-14095	3.6	46
1408	Photoelectrochemical hydrogen generation employing a CuO-based photocathode with improved stability and activity by using NiP as the cocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15300-15306	3.6	15
1407	Synthesis, characterization, surface properties and energy device characteristics of 2D borocarbonitrides, (BN) C, covalently cross-linked with sheets of other 2D materials.. <i>RSC Advances</i> , 2018 , 8, 17237-17253	3.7	14
1406	Supramolecular Hybrids of MoS ₂ and Graphene Nanosheets with Organic Chromophores for Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5101-5107	5.6	10
1405	CdNF, an analogue of CdO. <i>Dalton Transactions</i> , 2018 , 47, 9303-9309	4.3	4
1404	Covalently Bonded MoS ₂ Borocarbonitride Nanocomposites Generated by Using Surface Functionalities on the Nanosheets and Their Remarkable HER Activity. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13376-13384	3.8	30
1403	Synthesis and properties of graphene and its 2D inorganic analogues with potential applications. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	3
1402	TiNF and Related Analogues of TiO ₂ : A Combined Experimental and Theoretical Study. <i>ChemPhysChem</i> , 2018 , 19, 3410-3417	3.2	6
1401	Photochemical and Photoelectrochemical Hydrogen Generation by Splitting Seawater. <i>Chemistry - A European Journal</i> , 2018 , 24, 18455-18462	4.8	19
1400	Remarkable photochemical HER activity of semiconducting 2H (hbox {MoSe}_{2}) and (hbox {MoS}_{2}) covalently linked to layers of 2D structures and of the stable metallic 1T phases prepared solvo- or hydro-thermally(^{S}). <i>Journal of Chemical Sciences</i> , 2018 , 130, 1	1.8	9
1399	One-Step Simultaneous Exfoliation and Covalent Functionalization of MoS ₂ by Amino Acid Induced Solution Processes. <i>ChemNanoMat</i> , 2017 , 3, 172-177	3.5	28
1398	Quantification of surface functionalities on graphene, boron nitride and borocarbonitrides by fluorescence labeling. <i>Chemical Physics Letters</i> , 2017 , 683, 459-466	2.5	19
1397	Nanocomposites of CN with Layers of MoS and Nitrogenated RGO, Obtained by Covalent Cross-Linking: Synthesis, Characterization, and HER Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10664-10672	9.5	95
1396	Electronic structure and properties of Cd ₄ As ₂ Br ₃ and Cd ₄ Sb ₂ I ₃ , analogues of CdSe and CdTe. <i>Solid State Communications</i> , 2017 , 255-256, 5-10	1.6	2
1395	Effects of Substitution of Aliovalent N ³⁻ and Cl ⁻ Ions in Place of O ²⁻ in ZnO: Properties of ZnO _{1-x} N _x Cl _y (x, y = 0.00.5). <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2377-2383	2.3	4
1394	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3

1393	Photoelectrochemical Oxygen Evolution Reaction Activity of Amorphous Co ₃ O ₄ Double Hydroxide-BiVO ₄ Fabricated by Pulse Plating Electrodeposition. <i>ACS Energy Letters</i> , 2017 , 2, 1062-1069	20.1	42
1392	Novel properties of 0D metal-organic polyhedra bonded to the surfaces of 2D graphene and 1D single-walled carbon nanotubes. <i>Dalton Transactions</i> , 2017 , 46, 7998-8003	4.3	8
1391	Recent Progress in the Photocatalytic Reduction of Carbon Dioxide. <i>ACS Omega</i> , 2017 , 2, 2740-2748	3.9	142
1390	Solar thermochemical splitting of water to generate hydrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13385-13393	11.5	76
1389	Reaction with organic halides as a general method for the covalent functionalization of nanosheets of 2D chalcogenides and related materials. <i>Journal of Materials Research</i> , 2017 , 32, 2984-2992	2.5	18
1388	Weyl Semimetals as Hydrogen Evolution Catalysts. <i>Advanced Materials</i> , 2017 , 29, 1606202	24	107
1387	Atomic Layer Deposition of Ultrathin Crystalline Epitaxial Films of VO. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3178-3185	9.5	17
1386	Non-Covalent Synthesis as a New Strategy for Generating Supramolecular Layered Heterostructures. <i>Chemistry of Materials</i> , 2017 , 29, 9751-9757	9.6	8
1385	Doping Phosphorene with Holes and Electrons through Molecular Charge Transfer. <i>ChemPhysChem</i> , 2017 , 18, 2985-2989	3.2	28
1384	Hydrogen generation by water splitting using MoS ₂ and other transition metal dichalcogenides. <i>Nano Energy</i> , 2017 , 41, 49-65	17.1	176
1383	Photochemical Water Splitting by Bismuth Chalcogenide Topological Insulators. <i>ChemPhysChem</i> , 2017 , 18, 2322-2327	3.2	30
1382	Covalent cross-linking as a strategy to generate novel materials based on layered (2D) and other low D structures. <i>Chemical Communications</i> , 2017 , 53, 10093-10107	5.8	34
1381	Electrocatalytic hydrogen evolution reaction activity comparable to platinum exhibited by the Ni/Ni(OH) ₂ /graphite electrode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8986-8990	11.5	75
1380	Borocarbonitrides, BCN: Synthesis, Characterization, and Properties with Potential Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19478-19494	9.5	71
1379	Covalent Functionalization of Nanosheets of MoS ₂ and MoSe ₂ by Substituted Benzenes and Other Organic Molecules. <i>Chemistry - A European Journal</i> , 2017 , 23, 886-895	4.8	66
1378	Effects of Aliovalent Anion Substitution on the Electronic Structures and Properties of ZnO and CdS. <i>Israel Journal of Chemistry</i> , 2017 , 57, 477-489	3.4	2
1377	2D Inorganic Materials beyond Graphene 2017 ,		18
1376	Effects of p- and n-type Doping in Inorganic Fullerene MoS ₂ on the Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2016 , 3, 1937-1943	4.3	20

1375	Hydrazine as a hydrogen carrier in the photocatalytic generation of H using CdS quantum dots. <i>Dalton Transactions</i> , 2016 , 45, 15137-15141	4.3	14
1374	Significant reduction in the operating temperature of the Mn(II)/Mn(III) oxide-based thermochemical water splitting cycle brought about by the use of nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16830-16833	13	5
1373	Splitting of CO ₂ by Manganite Perovskites to Generate CO by Solar Isothermal Redox Cycling. <i>ACS Energy Letters</i> , 2016 , 1, 237-243	20.1	40
1372	Properties of nanosheets of 2D-borocarbonitrides related to energy devices, transistors and other areas. <i>Chemical Physics Letters</i> , 2016 , 657, 124-130	2.5	21
1371	Zn ₂ NF and Related Analogues of ZnO. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8228-34	16.4	31
1370	Effectiveness of NiO in replacing Pt in the photochemical generation of hydrogen by (TiO ₂) ₁ (NiO)/Cd _{0.8} Zn _{0.2} S heterostructures. <i>Solid State Communications</i> , 2016 , 243, 1-6	1.6	9
1369	Structure and Properties of Cd ₄ P ₂ Cl ₃ , an Analogue of CdS. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15063-15069	3.8	12
1368	Solar photochemical and thermochemical splitting of water. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	19
1367	Electronic structure and properties of layered gallium telluride. <i>Chemical Physics Letters</i> , 2016 , 651, 148-154	4.3	43
1366	Atomic Layer Deposition of p-Type Epitaxial Thin Films of Undoped and N-Doped Anatase TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7897-901	9.5	33
1365	Superior performance of borocarbonitrides, B _x C _y N _z , as stable, low-cost metal-free electrocatalysts for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2016 , 9, 95-101	35.4	156
1364	Remarkable Improvement in the Mechanical Properties and CO ₂ Uptake of MOFs Brought About by Covalent Linking to Graphene. <i>Angewandte Chemie</i> , 2016 , 128, 7988-7992	3.6	7
1363	Remarkable Improvement in the Mechanical Properties and CO ₂ Uptake of MOFs Brought About by Covalent Linking to Graphene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7857-61	16.4	49
1362	Structure and Electron-Transport Properties of Anion-Deficient MoTe ₂ : A Combined Experimental and Theoretical Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016 , 642, 1386-1396	1.3	13
1361	Novel Radiation-Induced Properties of Graphene and Related Materials 2016 , 159-189		
1360	Assemblies of covalently cross-linked nanosheets of MoS ₂ and of MoS ₂ /RGO: synthesis and novel properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8989-8994	13	42
1359	Composite of few-layer MoO ₃ nanosheets with graphene as a high performance anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9466-9471	13	60
1358	Generation of Hydrogen by Visible Light-Induced Water Splitting with the Use of Semiconductors and Dyes. <i>Small</i> , 2016 , 12, 16-23	11	31

1357	Exchange bias at low fields exhibited by the interface between epitaxial layers of ferromagnetic and charge-ordered rare-earth manganites. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 622-626	2.5	5
1356	Nanocomposites of 2D-MoS ₂ nanosheets with the metal-organic framework, ZIF-8. <i>Dalton Transactions</i> , 2016 , 45, 13810-6	4.3	27
1355	Two-dimensional inorganic analogues of graphene: transition metal dichalcogenides. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	53
1354	Assemblies of single-walled carbon nanotubes generated by covalent cross-linking with organic linkers. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6747-6750	13	19
1353	Carbon-Nanohorn-Reinforced Polymer Matrix Composites: Synergetic Benefits in Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17016-22	9.5	23
1352	Superior Performance of a MoS ₂ -RGO Composite and a Borocarbonitride in the Electrochemical Detection of Dopamine, Uric Acid and Adenine. <i>Electroanalysis</i> , 2015 , 27, 1892-1898	3	45
1351	Comparative Study of Potential Applications of Graphene, MoS ₂ , and Other Two-Dimensional Materials in Energy Devices, Sensors, and Related Areas. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7809-32	9.5	311
1350	Supercapacitors Based on Graphene and Related Materials 2015 , 227-252		2
1349	Notable Effects of Aliovalent Anion Substitution on the Electronic Structure and Properties of Metal Oxides and Sulfides. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3303-3308	6.4	27
1348	Effects of morphology and surface area of the oxide nanostructures on the visible-light induced generation of hydrogen in ZnO(TiO ₂)/Cd _{1-x} S and ZnO(TiO ₂)/Pt/Cd _{1-x} S heterostructures (x= 0.0, 0.2). <i>Chemical Physics Letters</i> , 2015 , 637, 137-142	2.5	17
1347	Inorganic Graphene Analogs. <i>Annual Review of Materials Research</i> , 2015 , 45, 29-62	12.8	39
1346	Soft Chemistry Routes 2015 , 57-95		1
1345	Chemical Vapour Deposition and Atomic Layer Deposition 2015 , 103-106		1
1344	Nanomaterials 2015 , 107-149		
1343	Decomposition of Precursor Compounds 2015 , 23-32		
1342	Reactions at High Pressures 2015 , 41-46		
1341	Mechanochemical and Sonochemical Methods 2015 , 47-52		
1340	Use of Microwaves 2015 , 53-56		

1339 Arc and Skull Methods **2015**, 37-39

1338 Nebulized Spray Pyrolysis **2015**, 97-101

1337 Combustion Synthesis **2015**, 33-36

1336 Ceramic Methods **2015**, 17-21

1335 Common Reactions Employed in Synthesis **2015**, 7-15

1334 Pressure-induced structural phase transitions and phonon anomalies in ReO₃: Raman and first-principles study. *Physical Review B*, **2015**, 91, 3.3 6

1333 Extraordinary Changes in the Electronic Structure and Properties of CdS and ZnS by Anionic Substitution: Cosubstitution of P and Cl in Place of S. *Angewandte Chemie*, **2015**, 127, 8267-8271 3.6 10

1332 BN/Graphene Composites Generated by Covalent Cross-Linking with Organic Linkers. *Advanced Functional Materials*, **2015**, 25, 5910-5917 15.6 48

1331 Effect of Nitrogen Substitution in V O on the Metal-Insulator Transition. *ChemPhysChem*, **2015**, 16, 2745-2750 2

1330 Clean WS₂ and MoS₂ Nanoribbons Generated by Laser-Induced Unzipping of the Nanotubes. *Small*, **2015**, 11, 3916-20 11 20

1329 2D-GaS as a Photocatalyst for Water Splitting to Produce H₂. *Small*, **2015**, 11, 4723-30 11 40

1328 Effect of Nitrogen and Fluorine Co-substitution on the Structure and Magnetic Properties of Cr₂O₃. *ChemPhysChem*, **2015**, 16, 1502-8 3.2 14

1327 Extraordinary Changes in the Electronic Structure and Properties of CdS and ZnS by Anionic Substitution: Cosubstitution of P and Cl in Place of S. *Angewandte Chemie - International Edition*, **2015**, 54, 8149-53 16.4 37

1326 Graphene/Single-Walled Carbon Nanotube Composites Generated by Covalent Cross-Linking. *Chemistry - an Asian Journal*, **2015**, 10, 2147-52 4.5 17

1325 Visible light-induced hydrogen generation using colloidal (ZnS)_{0.4}(AgInS₂)_{0.6} nanocrystals capped by S₂ ions. *Journal of Materials Chemistry A*, **2015**, 3, 8276-8279 13 22

1324 Performance of MoS₂-reduced graphene oxide nanocomposites in supercapacitors and in oxygen reduction reaction. *Nanomaterials and Energy*, **2015**, 4, 9-17 1.1 18

1323 Few-layer borocarbonitride nanosheets: platinum-free catalyst for the oxygen reduction reaction. *Chemistry - an Asian Journal*, **2014**, 9, 838-43 4.5 23

1322 Synthesis and Characterization of Few-layer Nanosheets of GaN and Other Metal Nitrides. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 2737-2741 1.3 15

1321	Synthesis, anion order and magnetic properties of $RVO_3 \times N_x$ perovskites (R = La, Pr, Nd; $0 \leq x \leq 1$). <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2212	7.1	22
1320	Porous graphene frameworks pillared by organic linkers with tunable surface area and gas storage properties. <i>Chemical Communications</i> , 2014 , 50, 2015-7	5.8	92
1319	Fabrication of large-area PbSe films at the organic/aqueous interface and their near-infrared photoresponse. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6283	7.1	8
1318	Functionality preservation with enhanced mechanical integrity in the nanocomposites of the metal-organic framework, ZIF-8, with BN nanosheets. <i>Materials Horizons</i> , 2014 , 1, 513-517	14.4	27
1317	Visible-light induced hydrogen generation with ZnO/NiO/Cd $1-x$ Zn x S (x = 0.0, 0.2) heterostructures. <i>Chemical Physics Letters</i> , 2014 , 610-611, 316-320	2.5	13
1316	Excellent performance of few-layer borocarbonitrides as anode materials in lithium-ion batteries. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 100-3	4.5	33
1315	Extraordinary attributes of 2-dimensional MoS ₂ nanosheets. <i>Chemical Physics Letters</i> , 2014 , 609, 172-183	3.5	117
1314	Growth of 2D sheets of a MOF on graphene surfaces to yield composites with novel gas adsorption characteristics. <i>Dalton Transactions</i> , 2014 , 43, 7383-6	4.3	59
1313	Synthesis, properties and applications of graphene doped with boron, nitrogen and other elements. <i>Nano Today</i> , 2014 , 9, 324-343	17.9	304
1312	Doping of Graphene by Nitrogen, Boron, and Other Elements 2014 , 283-358		5
1311	Visible-light-induced generation of H ₂ by nanocomposites of few-layer TiS ₂ and TaS ₂ with CdS nanoparticles. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1311-5	4.5	39
1310	Remarkable improvement in visible-light induced hydrogen generation by ZnO/Pt/Cd $1-x$ ZnyS heterostructures through substitution of N and F in ZnO. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7702-7705	12.7	28
1309	Composition-dependent photoluminescence and electronic structure of 2-dimensional borocarbonitrides, BCxN (x= 1, 5). <i>Materials Research Express</i> , 2014 , 1, 025603	1.7	24
1308	Characterization of few-layer 1T-MoSe ₂ and its superior performance in the visible-light induced hydrogen evolution reaction. <i>APL Materials</i> , 2014 , 2, 092802	5.7	166
1307	Novel features of multiferroic and magnetoelectric ferrites and chromites exhibiting magnetically driven ferroelectricity. <i>Materials Horizons</i> , 2014 , 1, 20-31	14.4	74
1306	Visible light induced oxidation of water by rare earth manganites, cobaltites and related oxides. <i>Chemical Physics Letters</i> , 2014 , 591, 277-281	2.5	17
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