Prashanth W Menezes

List of Publications by Year
in descending order

111 papers	7,486 citations	53660 45 h-index	56606 83 g-index
125 all docs	125 docs citations	125 times ranked	7091 citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Cellulose for the Production of Photocatalytic Films for Hydrogen Evolution Along the Lines of Paper Production. Energy Technology, 2022, 10, 2100525.	1.8	6
2	Inâ€Liquid Plasma for Surface Engineering of Cu Electrodes with Incorporated SiO₂ Nanoparticles: From Micro to Nano. Advanced Functional Materials, 2022, 32, 2107058.	7.8	12
3	Functional role of single-atom catalysts in electrocatalytic hydrogen evolution: Current developments and future challenges. Coordination Chemistry Reviews, 2022, 452, 214289.	9.5	54
4	Alkaline oxygen evolution: exploring synergy between fcc and hcp cobalt nanoparticles entrapped in N-doped graphene. Materials Today Chemistry, 2022, 23, 100668.	1.7	20
5	The Pivotal Role of sâ€, pâ€, and fâ€Block Metals in Water Electrolysis: Status Quo and Perspectives. Advanced Materials, 2022, 34, e2108432.	11.1	55
6	Entropy Enhanced Perovskite Oxide Ceramic for Efficient Electrochemical Reduction of Oxygen to Hydrogen Peroxide. Angewandte Chemie, 2022, 134, .	1.6	2
7	Entropy Enhanced Perovskite Oxide Ceramic for Efficient Electrochemical Reduction of Oxygen to Hydrogen Peroxide. Angewandte Chemie - International Edition, 2022, 61, .	7.2	35
8	Why should transition metal chalcogenides be investigated as water splitting precatalysts even though they transform into (oxyhydr)oxides?. Current Opinion in Electrochemistry, 2022, 34, 100991.	2.5	26
9	An Intermetallic CaFe₆Ge₆ Approach to Unprecedented Caâˆ’Feâˆ’O Electrocatalyst for Efficient Alkaline Oxygen Evolution Reaction. ChemCatChem, 2022, 14, .	1.8	10
10	Manganese sulfide enables the formation of a highly active Î²-MnOOH electrocatalyst for effective alkaline water oxidation. Materials Today Chemistry, 2022, 24, 100905.	1.7	5
11	Nanostructured Intermetallic Nickel Silicide (Pre)Catalyst for Anodic Oxygen Evolution Reaction and Selective Dehydrogenation of Primary Amines. Advanced Energy Materials, 2022, 12, .	10.2	42
12	Composition Engineering of Amorphous Nickel Boride Nanoarchitectures Enabling Highly Efficient Electrosynthesis of Hydrogen Peroxide. Advanced Materials, 2022, 34, .	11.1	48
13	Front Cover: An Intermetallic CaFe₆Ge₆ Approach to Unprecedented Caâˆ’Feâˆ’O Electrocatalyst for Efficient Alkaline Oxygen Evolution Reaction (ChemCatChem 14/2022). ChemCatChem, 2022, 14, .	1.8	0
14	Facile Access to an Active Î³â€NiOOH Electrocatalyst for Durable Water Oxidation Derived From an Intermetallic Nickel Germanide Precursor. Angewandte Chemie - International Edition, 2021, 60, 4640-4647.	7.2	119
15	Promoting Photocatalytic Hydrogen Evolution Activity of Graphitic Carbon Nitride with Holeâ€Transfer Agents. ChemSusChem, 2021, 14, 306-312.	3.6	17
16	Facile Access to an Active Î³â€NiOOH Electrocatalyst for Durable Water Oxidation Derived From an Intermetallic Nickel Germanide Precursor. Angewandte Chemie, 2021, 133, 4690-4697.	1.6	23
17	Is direct seawater splitting economically meaningful?. Energy and Environmental Science, 2021, 14, 3679-3685.	15.6	158
18	Perspective on intermetallics towards efficient electrocatalytic water-splitting. Chemical Science, 2021, 12, 8603-8631.	3.7	74

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19	Intermetallic Fe₆Ge₅ formation and decay of a coreâ€“shell structure during the oxygen evolution reaction. Chemical Communications, 2021, 57, 2184-2187.	2.2	25
20	Combination of Highly Efficient Electrocatalytic Water Oxidation with Selective Oxygenation of Organic Substrates using Manganese Borophosphates. Advanced Materials, 2021, 33, e2004098.	11.1	52
21	Strategies and Perspectives to Catch the Missing Pieces in Energyâ€Efficient Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie - International Edition, 2021, 60, 18981-19006.	7.2	239
22	Exploring the Mechanism of Peroxodisulfate Activation with Silver Metavanadate to Generate Abundant Reactive Oxygen Species. Advanced Sustainable Systems, 2021, 5, 2000288.	2.7	10
23	Strategies and Perspectives to Catch the Missing Pieces in Energyâ€Efficient Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie, 2021, 133, 19129-19154.	1.6	13
24	Well-Defined, Silica-Supported Homobimetallic Nickel Hydride Hydrogenation Catalyst. Inorganic Chemistry, 2021, 60, 5483-5487.	1.9	3
25	Evolving Highly Active Oxidic Iron(III) Phase from Corrosion of Intermetallic Iron Silicide to Master Efficient Electrocatalytic Water Oxidation and Selective Oxygenation of 5â€Hydroxymethylfurfural. Advanced Materials, 2021, 33, e2008823.	11.1	91
26	Selfâ€Supported Electrocatalysts for Practical Water Electrolysis. Advanced Energy Materials, 2021, 11, 2102074.	10.2	161
27	The pH of Aqueous NaOH/KOH Solutions: A Critical and Non-trivial Parameter for Electrocatalysis. ACS Energy Letters, 2021, 6, 3567-3571.	8.8	52
28	Selfâ€Supported Electrocatalysts for Practical Water Electrolysis (Adv. Energy Mater. 39/2021). Advanced Energy Materials, 2021, 11, 2170153.	10.2	2
29	Stannites â€“ A New Promising Class of Durable Electrocatalysts for Efficient Water Oxidation. ChemCatChem, 2020, 12, 1161-1168.	1.8	18
30	Detecting structural transformation of cobalt phosphonate to active bifunctional catalysts for electrochemical water-splitting. Journal of Materials Chemistry A, 2020, 8, 2637-2643.	5.2	80
31	Improved chemical water oxidation with Zn in the tetrahedral site of spinel-type ZnCo2O4 nanostructure. Materials Today Chemistry, 2020, 15, 100226.	1.7	19
32	Amidation of Aldehydes with Amines under Mild Conditions Using Metalâ€Organic Framework Derived NiO@Ni Mottâ€Schottky Catalyst. ChemCatChem, 2020, 12, 5743-5749.	1.8	20
33	Beyond CO2 Reduction: Vistas on Electrochemical Reduction of Heavy Non-metal Oxides with Very Strong Eâ€"O Bonds (E = Si, P, S). Journal of the American Chemical Society, 2020, 142, 14772-14788.	6.6	22
34	Understanding the formation of bulk- and surface-active layered (oxy)hydroxides for water oxidation starting from a cobalt selenite precursor. Energy and Environmental Science, 2020, 13, 3607-3619.	15.6	77
35	Electrochemical transformation of Prussian blue analogues into ultrathin layered double hydroxide nanosheets for water splitting. Chemical Communications, 2020, 56, 15036-15039.	2.2	46
36	A soft molecular 2Feâ€“2As precursor approach to the synthesis of nanostructured FeAs for efficient electrocatalytic water oxidation. Chemical Science, 2020, 11, 11834-11842.	3.7	30

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37	Enabling Ironâ€Based Highly Effective Electrochemical Waterâ€Splitting and Selective Oxygenation of Organic Substrates through In Situ Surface Modification of Intermetallic Iron Stannide Precatalyst. Advanced Energy Materials, 2020, 10, 2001377.	10.2	96
38	Crystalline Copper Selenide as a Reliable Nonâ€Noble Electro(pre)catalyst for Overall Water Splitting. ChemSusChem, 2020, 13, 3222-3229.	3.6	85
39	A Lowâ€Temperature Molecular Precursor Approach to Copperâ€Based Nanoâ€Sized <i>Digenite</i> Mineral for Efficient Electrocatalytic Oxygen Evolution Reaction. Chemistry - an Asian Journal, 2020, 15, 852-859.	1.7	32
40	Uncovering giant nanowheels for magnesium ionâ€“based batteries. Materials Today Chemistry, 2020, 16, 100221.	1.7	6
41	A Systems Approach to a Oneâ€Pot Electrochemical Wittig Olefination Avoiding the Use of Chemical Reductant or Sacrificial Electrode. Chemistry - A European Journal, 2020, 26, 11829-11834.	1.7	18
42	Bifunctional nanocatalysts for water splitting and its challenges. , 2020, , 59-95.		1
43	Boosting Electrocatalytic Hydrogen Evolution Activity with a NiPt₃@NiS Heteronanostructure Evolved from a Molecular Nickelâ€“Platinum Precursor. Journal of the American Chemical Society, 2019, 141, 13306-13310.	6.6	119
44	Steigerung der Wasseroxidation durch Inâ€situâ€Elektrokonversion eines Mangangallids: Ein intermetallischer VorlÃuferansatz. Angewandte Chemie, 2019, 131, 16722-16727.	1.6	13
45	Boosting Water Oxidation through In Situ Electroconversion of Manganese Gallide: An Intermetallic Precursor Approach. Angewandte Chemie - International Edition, 2019, 58, 16569-16574.	7.2	60
46	A Cobaltâ€Based Amorphous Bifunctional Electrocatalysts for Waterâ€Splitting Evolved from a Singleâ€Source Lazulite Cobalt Phosphate. Advanced Functional Materials, 2019, 29, 1808632.	7.8	157
47	Amorphous outperforms crystalline nanomaterials: surface modifications of molecularly derived CoP electro(pre)catalysts for efficient water-splitting. Journal of Materials Chemistry A, 2019, 7, 15749-15756.	5.2	113
48	In Situ Formation of Nanostructured Coreâ€“Shell Cu₃Nâ€“CuO to Promote Alkaline Water Electrolysis. ACS Energy Letters, 2019, 4, 747-754.	8.8	172
49	Helical cobalt borophosphates to master durable overall water-splitting. Energy and Environmental Science, 2019, 12, 988-999.	15.6	179
50	A structurally versatile nickel phosphite acting as a robust bifunctional electrocatalyst for overall water splitting. Energy and Environmental Science, 2018, 11, 1287-1298.	15.6	205
51	A Molecular Approach to Manganese Nitride Acting as a High Performance Electrocatalyst in the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2018, 57, 698-702.	7.2	145
52	A Molecular Approach to Manganese Nitride Acting as a High Performance Electrocatalyst in the Oxygen Evolution Reaction. Angewandte Chemie, 2018, 130, 706-710.	1.6	35
53	Structurally Ordered Intermetallic Cobalt Stannide Nanocrystals for Highâ€Performance Electrocatalytic Overall Waterâ€Splitting. Angewandte Chemie - International Edition, 2018, 57, 15237-15242.	7.2	103
54	Structurally Ordered Intermetallic Cobalt Stannide Nanocrystals for Highâ€Performance Electrocatalytic Overall Waterâ€Splitting. Angewandte Chemie, 2018, 130, 15457-15462.	1.6	46

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55	From an Fe₂P₃ complex to FeP nanoparticles as efficient electrocatalysts for water-splitting. Chemical Science, 2018, 9, 8590-8597.	3.7	103
56	Nanoskalige anorganische Energiematerialien aus molekularen Vorstufen bei tiefer Temperatur. Angewandte Chemie, 2018, 130, 11298-11308.	1.6	15
57	Nanoâ€Sized Inorganic Energyâ€Materials by the Lowâ€Temperature Molecular Precursor Approach. Angewandte Chemie - International Edition, 2018, 57, 11130-11139.	7.2	62
58	Photocatalytic and photosensitized water splitting: A plea for well-defined and commonly accepted protocol. Comptes Rendus Chimie, 2018, 21, 909-915.	0.2	8
59	Facile Formation of Nanostructured Manganese Oxide Films as Highâ€Performance Catalysts for the Oxygen Evolution Reaction. ChemSusChem, 2018, 11, 2554-2561.	3.6	19
60	Boosting Visibleâ€Lightâ€Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphideâ€"Carbon Nitride System. Angewandte Chemie, 2017, 129, 1675-1679.	1.6	57
61	Boosting Visibleâ€Lightâ€Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphideâ€"Carbon Nitride System. Angewandte Chemie - International Edition, 2017, 56, 1653-1657.	7.2	261
62	A facile corrosion approach to the synthesis of highly active CoO_xwater oxidation catalysts. Journal of Materials Chemistry A, 2017, 5, 5171-5177.	5.2	81
63	Uncovering the Nature of Active Species of Nickel Phosphide Catalysts in High-Performance Electrochemical Overall Water Splitting. ACS Catalysis, 2017, 7, 103-109.	5.5	350
64	From a Molecular 2Feâ€2Se Precursor to a Highly Efficient Iron Diselenide Electrocatalyst for Overall Water Splitting. Angewandte Chemie, 2017, 129, 10642-10646.	1.6	31
65	From a Molecular 2Feâ€2Se Precursor to a Highly Efficient Iron Diselenide Electrocatalyst for Overall Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 10506-10510.	7.2	167
66	Boosting electrochemical water oxidation through replacement of O_h Co sites in cobalt oxide spinel with manganese. Chemical Communications, 2017, 53, 8018-8021.	2.2	151
67	Alkaline electrochemical water oxidation with multi-shelled cobalt manganese oxide hollow spheres. Chemical Communications, 2017, 53, 8641-8644.	2.2	53
68	Active and Stable Nickelâ€Based Electrocatalysts Based on the ZnO:Ni System for Water Oxidation in Alkaline Media. ChemCatChem, 2017, 9, 672-676.	1.8	17
69	Morphologyâ€Dependent Activities of Silver Phosphates: Visibleâ€Light Water Oxidation and Dye Degradation. ChemPlusChem, 2016, 81, 1068-1074.	1.3	24
70	A Singleâ€Source Precursor Approach to Selfâ€Supported Nickelâ€"Manganeseâ€Based Catalysts with Improved Stability for Effective Lowâ€Temperature Dry Reforming of Methane. ChemPlusChem, 2016, 81, 370-377.	1.3	16
71	Uncovering the prominent role of metal ions in octahedral versus tetrahedral sites of cobaltâ€"zinc oxide catalysts for efficient oxidation of water. Journal of Materials Chemistry A, 2016, 4, 10014-10022.	5.2	171
72	Nickel as a co-catalyst for photocatalytic hydrogen evolution on graphitic-carbon nitride (sg-CN): what is the nature of the active species?. Chemical Communications, 2016, 52, 104-107.	2.2	147

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73	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. Angewandte Chemie - International Edition, 2015, 54, 2472-2476.	7.2	152
74	Using nickel manganese oxide catalysts for efficient water oxidation. Chemical Communications, 2015, 51, 5005-5008.	2.2	89
75	High-Performance Oxygen Redox Catalysis with Multifunctional Cobalt Oxide Nanochains: Morphology-Dependent Activity. ACS Catalysis, 2015, 5, 2017-2027.	5.5	249
76	Uncovering Structureâ€“Activity Relationships in Manganeseâ€Oxideâ€Based Heterogeneous Catalysts for Efficient Water Oxidation. ChemSusChem, 2015, 8, 776-785.	3.6	96
77	Heterogeneous Water Oxidation: Surface Activity versus Amorphization Activation in Cobalt Phosphate Catalysts. Angewandte Chemie, 2015, 127, 2502-2506.	1.6	46
78	Alkaline-Earth-Metal-Induced Liberation of Rare Allotropes of Elemental Silicon and Germanium from N-Heterocyclic Metallylenes. Inorganic Chemistry, 2015, 54, 8840-8848.	1.9	24
79	Significant role of Mn(III) sites in eg1 configuration in manganese oxide catalysts for efficient artificial water oxidation. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 156-161.	1.7	50
80	Cobaltâ€“Manganeseâ€Based Spinels as Multifunctional Materials that Unify Catalytic Water Oxidation and Oxygen Reduction Reactions. ChemSusChem, 2015, 8, 164-171.	3.6	233
81	Nanostructured Manganese Oxides as Highly Active Water Oxidation Catalysts: A Boost from Manganese Precursor Chemistry. ChemSusChem, 2014, 7, 2202-2211.	3.6	110
82	Unification of Catalytic Water Oxidation and Oxygen Reduction Reactions: Amorphous Beat Crystalline Cobalt Iron Oxides. Journal of the American Chemical Society, 2014, 136, 17530-17536.	6.6	575
83	A Molecular Approach to Selfâ€Supported Cobaltâ€Substituted ZnO Materials as Remarkably Stable Electrocatalysts for Water Oxidation. Angewandte Chemie - International Edition, 2014, 53, 5183-5187.	7.2	73
84	Visible light driven non-sacrificial water oxidation and dye degradation with silver phosphates: multi-faceted morphology matters. New Journal of Chemistry, 2014, 38, 1942-1945.	1.4	47
85	Active Mixedâ€Valent MnO_{<i>x</i>} Water Oxidation Catalysts through Partial Oxidation (Corrosion) of Nanostructured MnO Particles. Angewandte Chemie - International Edition, 2013, 52, 13206-13210.	7.2	267
86	Synthesis and Crystal Structure of K₃AsSe₄ and K₄As₂Se₅ Containing [AsSe₄]³⁻ Anions and a Novel [As₂Se₅]⁴⁻ Isomer Featuring an Asâ€“As Bond. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 651-656.	0.3	2
87	Synthesis and Crystal Structure of Ca(en)₄Ca(en)₃[Sn₂Se₆] and Ca(en)₄Se₄ in Superheated and Supercritical Ethylenediamine. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1109-1113.	0.6	8
88	Crystal structure of 2-aminoethylammonium tris-(1,2-ethanediamine) zinc(II)tetraselenoantimonate(V), (C2H9N2)[Zn(C2H8N2)3][SbSe4], C8H33N8SbSe4Zn. Zeitschrift Fur Kristallographie - New Crystal Structures, 2012, 227, 439-440.	0.1	2
89	Nanoporous titanium borophosphates with rigid gainesite-type framework structure. Chemical Communications, 2011, 47, 11695.	2.2	5
90	K3Ln[OB(OH)2]2[HOPO3]2 (Ln=Yb, Lu): Layered rare-earth dihydrogen borate monohydrogen phosphates. Journal of Solid State Chemistry, 2011, 184, 1517-1522.	1.4	8

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91	Preparation and characterization of the layered borophosphates MII(H2O)2[B2P2O8(OH)2]Â·H2O (MII=Fe,) Tj ETQq1 1 0.784314 rgBT	1.2	5
92	Crystal structures of rubidium scandium bis(hydrogenphosphate), RbSc(HPO4)2, and ammonium scandium bis(hydrogenphosphate), NH4Sc(HPO4)2. Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, .	0.1	0
93	Synthesis and Crystal Structure of KSc(HPO₄)₂. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 33-35.	0.6	5
94	Synthesis and Crystal Structure of CaCo(H2O)[BP2O8(OH)]Â·H2O. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 614-617.	0.6	12
95	Synthesis and Crystal Structure of SrFe[BP2O8(OH)2]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1153-1156.	0.6	5
96	Crystal structure of dicaesium diaquatricobalt(II) (phosphate-borate-hydrogenphosphate), Cs2Co3(H2O)2[B4P6O24(OH)2]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, 1-2.	0.1	1
97	Crystal Structures Of Rubidium Scandium Bis(Hydrogenphosphate), Rbsc(HP04)2, And Ammonium Scandium Bis(Hydrogenphosphate), NH4Sc(HP04)2. Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, 21-23.	0.1	1
98	Crystal structure of hemicalcium diaquairon(II) catena-(monoborodiphosphate) monohydrate, Ca0.5Fe(H2O)2[BP2O8] Â· H2O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 9-54.	0.1	1
99	Crystal structure of lithium diaquacobalt(II) catena-monoborodiphosphate monohydrate, LiCo(H2O)2[BP2O8] Â·H2O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 333-334.	0.1	4
100	Na3PbII[B(O3POH)4]: An Alkali-Metal Lead Borophosphate with Heterocubane-like Units Na3PbO4. Inorganic Chemistry, 2008, 47, 10193-10195.	1.9	5
101	Crystal structure of barium iron(II) (monophosphate-hydrogenmonoborate- monophosphate), BaFe[BP2O8(OH)]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 337-338.	0.1	0
102	Crystal structure of caesium scandium bis(monohydrogenmonophosphate), CsSc(HPO4)2. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 321-322.	0.1	2
103	Crystal structure of barium cobalt(II) (monophosphate-hydrogenmonoborate- monophosphate), BaCo[BP2O8(OH)]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 339-340.	0.1	0
104	Crystal structure of dilithium scandium (monophosphatemonohydrogenmonophosphate), Li2Sc[(PO4)(HPO4)]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 319-320.	0.1	3
105	Crystal structure of calcium iron(II) hydrogenmonophosphatedihydrogenmonoborate-monophosphate, CaFe[BP2O7(OH)3]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 335-336.	0.1	2
106	CsSc[B2P3O11(OH)3]:â€‰ A New Borophosphate Oligomer Containing Boron in Three- and Fourfold Coordination. Inorganic Chemistry, 2007, 46, 7503-7508.	1.9	16
107	Crystal structure of hemicalcium diaquanickel(II) catena-(monoborodiphosphate) monohydrate, Ca0.5Ni(H2O)2[BP2O8] Â· H2O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2007, 222, 1-2.	0.1	3
108	Chain Structures in Alkali Metal Borophosphates: Synthesis and Characterization of K3[BP3O9(OH)3] and Rb3[B2P3O11(OH)2].. ChemInform, 2005, 36, no.	0.1	0

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109	Chain Structures in Alkali Metal Borophosphates:Â Synthesis and Characterization of K3[BP3O9(OH)3] and Rb3[B2P3O11(OH)2]. Inorganic Chemistry, 2005, 44, 6431-6438.	1.9	27
110	Remarkable thermal stability of BF3-doped polyaniline. Applied Physics Letters, 2003, 83, 2348-2350.	1.5	11
111	The Pitfalls of Using Potentiodynamic Polarization Curves for Tafel Analysis in Electrocatalytic Water Splitting. ACS Energy Letters, 0, , 1607-1611.	8.8	256