

Stevin S Pramana

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/400919/publications.pdf>

Version: 2024-02-01

80
papers

3,878
citations

117453

34
h-index

123241

61
g-index

84
all docs

84
docs citations

84
times ranked

6542
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. <i>Energy and Environmental Science</i> , 2012, 5, 8912.	15.6	314
2	A cuprous oxide-reduced graphene oxide (Cu ₂ O-rGO) composite photocatalyst for hydrogen generation: employing rGO as an electron acceptor to enhance the photocatalytic activity and stability of Cu ₂ O. <i>Nanoscale</i> , 2012, 4, 3875.	2.8	279
3	Nanoweb anodes composed of one-dimensional, high aspect ratio, size tunable electrospun ZnFe ₂ O ₄ nanofibers for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 14999.	6.7	210
4	Behavior of aluminum oxide, intermetallics and voids in Cu-Al wire bonds. <i>Acta Materialia</i> , 2011, 59, 5661-5673.	3.8	202
5	Novel cobalt/nickel-tungsten-sulfide catalysts for electrocatalytic hydrogen generation from water. <i>Energy and Environmental Science</i> , 2013, 6, 2452.	15.6	182
6	Morphology, structure and electrochemical properties of single phase electrospun vanadium pentoxide nanofibers for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 6465-6472.	4.0	152
7	In situ photo-assisted deposition of MoS ₂ electrocatalyst onto zinc cadmium sulphide nanoparticle surfaces to construct an efficient photocatalyst for hydrogen generation. <i>Nanoscale</i> , 2013, 5, 1479.	2.8	133
8	Novel Assembly of an MoS ₂ Electrocatalyst onto a Silicon Nanowire Array Electrode to Construct a Photocathode Composed of Elements Abundant on the Earth for Hydrogen Generation. <i>Chemistry - A European Journal</i> , 2012, 18, 13994-13999.	1.7	109
9	Efficient multispectral photodetection using Mn doped ZnO nanowires. <i>Journal of Materials Chemistry</i> , 2012, 22, 9678.	6.7	97
10	A re-examination of the mechanism of thermosonic copper ball bonding on aluminium metallization pads. <i>Scripta Materialia</i> , 2009, 61, 165-168.	2.6	95
11	Masks for COVID-19. <i>Advanced Science</i> , 2022, 9, e2102189.	5.6	89
12	Controlled growth of hematite (α-Fe ₂ O ₃) nanorod array on fluorine doped tin oxide: Synthesis and photoelectrochemical properties. <i>Electrochemistry Communications</i> , 2011, 13, 951-954.	2.3	88
13	Facile Photochemical Synthesis of Graphene-Pt Nanoparticle Composite for Counter Electrode in Dye Sensitized Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3447-3452.	4.0	85
14	ZnS buffer layer for Cu ₂ ZnSn(SSe) ₄ monograin layer solar cell. <i>Solar Energy</i> , 2015, 111, 344-349.	2.9	84
15	Tuning the morphology of ZnMn ₂ O ₄ lithium ion battery anodes by electrospinning and its effect on electrochemical performance. <i>RSC Advances</i> , 2013, 3, 2812.	1.7	70
16	Surfactant-Free Sub-2 nm Ultrathin Triangular Gold Nanoframes. <i>Small</i> , 2013, 9, 2880-2886.	5.2	66
17	Electrospun Zn _{1-x} Mn _x Fe ₂ O ₄ Nanofibers As Anodes for Lithium-Ion Batteries and the Impact of Mixed Transition Metallic Oxides on Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5461-5467.	4.0	65
18	Framework 'interstitial' oxygen in La ₁₀ (GeO ₄) ₅ (GeO ₅)O ₂ apatite electrolyte. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 597-602.	1.8	64

#	ARTICLE	IF	CITATIONS
19	A micromechanism study of thermosonic gold wire bonding on aluminum pad. Journal of Applied Physics, 2010, 108, .	1.1	60
20	Low temperature synthesis of wurtzite zinc sulfide (ZnS) thin films by chemical spray pyrolysis. Physical Chemistry Chemical Physics, 2013, 15, 6763.	1.3	60
21	Investigation of the conversion mechanism of nanosized CoF ₂ . Electrochimica Acta, 2013, 107, 301-312.	2.6	57
22	Simple Route to Monodispersed Silica@Titania Core@Shell Photocatalysts. Langmuir, 2008, 24, 6226-6231.	1.6	56
23	Assembling graphitic-carbon-nitride with cobalt-oxide-phosphate to construct an efficient hybrid photocatalyst for water splitting application. Catalysis Science and Technology, 2013, 3, 1694.	2.1	56
24	Evolution Pathway of CIGSe Nanocrystals for Solar Cell Applications. Journal of Physical Chemistry C, 2012, 116, 8202-8209.	1.5	55
25	Synthesis of Cu ₂ SnSe ₃ Nanocrystals for Solution Processable Photovoltaic Cells. Inorganic Chemistry, 2013, 52, 1722-1728.	1.9	51
26	A taxonomy of apatite frameworks for the crystal chemical design of fuel cell electrolytes. Journal of Solid State Chemistry, 2008, 181, 1717-1722.	1.4	49
27	Rapid fabrication of a novel Sn-Ge alloy; structure-property relationship and its enhanced lithium storage properties. Journal of Materials Chemistry A, 2013, 1, 14577.	5.2	47
28	Ion-Induced Synthesis of Uniform Single-Crystalline Sulphide-Based Quaternary Alloy Hexagonal Nanorings for Highly Efficient Photocatalytic Hydrogen Evolution. Advanced Materials, 2013, 25, 2567-2572.	11.1	45
29	Intermetallic phase transformations in Au-Al wire bonds. Intermetallics, 2011, 19, 1808-1816.	1.8	44
30	Crystal structure and surface characteristics of Sr-doped GdBaCo ₂ O _{6-δ} double perovskites: oxygen evolution reaction and conductivity. Journal of Materials Chemistry A, 2018, 6, 5335-5345.	5.2	42
31	Ultraviolet Electroluminescence from Randomly Assembled n-SnO ₂ Nanowires/p-GaN:Mg Heterojunction. ACS Applied Materials & Interfaces, 2010, 2, 1191-1194.	4.0	41
32	The crystal chemistry of the alkaline-earth apatites A ₁₀ (PO ₄) ₆ Cu _x O _y (H) _z (A = Ca, Sr and Ba). Dalton Transactions, 2009, , 6722.	1.6	39
33	Why Ni is absent from the surface of La ₂ NiO _{4-δ} ?. Journal of Materials Chemistry A, 2015, 3, 23760-23767.	5.2	37
34	Enhanced electron field emission properties of high aspect ratio silicon nanowire-zinc oxide core-shell arrays. Physical Chemistry Chemical Physics, 2012, 14, 4614.	1.3	35
35	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO _{4.25} . Journal of the American Chemical Society, 2016, 138, 1273-1279.	6.6	34
36	Effect of TiO ₂ Mesoporous Layer and Surface Treatments in Determining Efficiencies in Antimony Sulfide-(Sb ₂ S ₃) Sensitized Solar Cells. Journal of the Electrochemical Society, 2012, 159, B247-B250.	1.3	32

#	ARTICLE	IF	CITATIONS
37	Polysomatic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 1-16.	1.8	30
38	Apatite metaprisism twist angle ($\hat{\Gamma}$) as a tool for crystallochemical diagnosis. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2978-2986.	1.4	30
39	Apatite germanates doped with tungsten: synthesis, structure, and conductivity. <i>Dalton Transactions</i> , 2011, 40, 3903-3908.	1.6	29
40	Investigation of the role of anions in hydrotalcite for quasi-solid state dye-sensitized solar cells application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4345.	5.2	29
41	The crystallographic and magnetic characteristics of Sr ₂ CrO ₄ (K ₂ NiF ₄ -type) and Sr ₁₀ (CrO ₄) ₆ F ₂ (apatite-type). <i>Journal of Solid State Chemistry</i> , 2007, 180, 1538-1546.	1.4	28
42	Microwave Synthesis of Noncentrosymmetric BaTiO ₃ Truncated Nanocubes for Charge Storage Applications. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3037-3042.	4.0	28
43	New mechanisms of void growth in Au-Al wire bonds: Volumetric shrinkage and intermetallic oxidation. <i>Scripta Materialia</i> , 2011, 65, 642-645.	2.6	26
44	Long-Lived Liquid Marbles for Green Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2011198.	7.8	26
45	Fergusonite-type CeNbO ₄ : Single crystal growth, symmetry revision and conductivity. <i>Journal of Solid State Chemistry</i> , 2013, 204, 291-297.	1.4	25
46	A maskless synthesis of TiO ₂ -nanofiber-based hierarchical structures for solid-state dye-sensitized solar cells with improved performance. <i>Nanoscale Research Letters</i> , 2014, 9, 14.	3.1	23
47	The role of tin oxide surface defects in determining nanonet FET response to humidity and photoexcitation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 940-945.	2.7	23
48	Stability of NdBaCo _{2-x} Mn _x O _{5+δ} (x = 0, 0.5) layered perovskites under humid conditions investigated by high-temperature in situ neutron powder diffraction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15420-15431.	5.2	23
49	Amorphous-cathode-route towards low temperature SOFC. <i>Sustainable Energy and Fuels</i> , 2018, 2, 862-875.	2.5	20
50	High-surface-area, interconnected, nanofibrillar TiO ₂ structures as photoanodes in dye-sensitized solar cells. <i>Scripta Materialia</i> , 2013, 68, 487-490.	2.6	18
51	Crystallographic Correlations with Anisotropic Oxide Ion Conduction in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Chemistry of Materials</i> , 2013, 25, 1109-1120.	3.2	18
52	Crystal chemistry and optimization of conductivity in 2A, 2M and 2H alkaline earth lanthanum germanate oxyapatite electrolyte polymorphs. <i>Solid State Ionics</i> , 2010, 181, 1189-1196.	1.3	15
53	Novel Zn-Sn-O nanocactus with excellent transport properties as photoanode material for high performance dye-sensitized solar cells. <i>Nanoscale</i> , 2011, 3, 4640.	2.8	15
54	Chemical welding of binary nanoparticles: room temperature sintering of CuSe and In ₂ S ₃ nanoparticles for solution-processed CuInS _x Se _{1-x} solar cells. <i>Chemical Communications</i> , 2013, 49, 5351.	2.2	15

#	ARTICLE	IF	CITATIONS
55	Pseudomorphic $2A\hat{+} 2M\hat{+} 2H$ phase transitions in lanthanum strontium germanate electrolyte apatites. Dalton Transactions, 2009, , 8280.	1.6	14
56	Ultra-thin conformal deposition of $CuInS_2$ on ZnO nanowires by chemical spray pyrolysis. Journal of Materials Chemistry, 2012, 22, 13965.	6.7	14
57	Hydrothermal Synthesis, Structure Investigation, and Oxide Ion Conductivity of Mixed Si/Ge-Based Apatite-Type Phases. Inorganic Chemistry, 2014, 53, 4803-4812.	1.9	14
58	Electrospun Single-Phase $Na_{1.2}V_3O_8$ Materials with Tunable Morphologies as Cathodes for Rechargeable Lithium-Ion Batteries. ChemElectroChem, 2015, 2, 837-846.	1.7	14
59	Characterisation of Intermetallic Phases in Fusion Welded Commercially Pure Titanium and Stainless Steel 304. Metals, 2018, 8, 863.	1.0	14
60	Modification of the order of the magnetic phase transition in cobaltites without changing their crystal space group. Journal of Alloys and Compounds, 2019, 777, 1080-1086.	2.8	14
61	Boosting the oxygen evolution activity in non-stoichiometric praseodymium ferrite-based perovskites by A site substitution for alkaline electrolyser anodes. Sustainable Energy and Fuels, 2021, 5, 154-165.	2.5	14
62	Crystal chemistry of mimetite, $Pb_{10}(AsO_4)_6Cl_{1.48}O_{0.26}$, and finneanite, $Pb_{10}(AsO_3)_6Cl_2$. Acta Crystallographica Section B: Structural Science, 2008, 64, 34-41.	1.8	13
63	Physical and Electrical Properties of Single Zn_2SnO_4 Nanowires. Electrochemical and Solid-State Letters, 2011, 14, K5.	2.2	11
64	Optical and Electrical Properties of Wurtzite Copper Indium Sulfide Nanoflakes. Materials Express, 2012, 2, 344-350.	0.2	11
65	Liquid Marbles in Liquid. Small, 2020, 16, e2002802.	5.2	11
66	Room temperature structure and transport properties of the incommensurate modulated $LaNb_{0.88}W_{0.12}O_{4.06}$. Dalton Transactions, 2019, 48, 1633-1646.	1.6	10
67	A multi-domain gem-grade Brazilian apatite. American Mineralogist, 2012, 97, 1574-1581.	0.9	9
68	Effect of III/V ratio on the polarity of AlN and GaN layers grown in the metal rich growth regime on Si(111) by plasma assisted molecular beam epitaxy. Japanese Journal of Applied Physics, 2015, 54, 065701.	0.8	9
69	Morphology and stoichiometry control of hierarchical $CuInSe_2/SnO_2$ nanostructures by directed electrochemical assembly for solar energy harvesting. Electrochemistry Communications, 2012, 15, 18-21.	2.3	7
70	Electrochemical Reactivity with Lithium of Spinel-type $ZnFe_2CrO_4$ ($0 \leq x \leq 2$). Journal of Physical Chemistry C, 2013, 117, 24213-24223.	1.5	7
71	Evolution of Structure in the Incommensurate Modulated $LaNb_{1-x}W_xO_{4+x/2}$ ($x = 0.04-0.16$) Oxide Ion Conductors. Chemistry of Materials, 2020, 32, 2292-2303.		7
72	Revisiting the thermal and chemical expansion and stability of $La_{0.6}Sr_{0.4}FeO_3$. Journal of Solid State Chemistry, 2021, 293, 121838.	1.4	7

#	ARTICLE	IF	CITATIONS
73	Synthesis and characterisation of vanadium doped alkaline earth lanthanum germanate oxyapatite electrolyte. <i>Journal of Materials Chemistry</i> , 2012, 22, 2658-2669.	6.7	6
74	Surface Chemistry of La _{0.99} Sr _{0.01} NbO _{4-d} and Its Implication for Proton Conduction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29633-29642.	4.0	6
75	Fabrication and characterisation of single-phase Hf ₂ Al ₄ C ₅ ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1292-1301.	2.8	6
76	Highly transparent liquid marble in liquid (HT-LMIL) as 3D miniaturized reactor for real-time bio-/chemical assays. <i>Chemical Engineering Journal</i> , 2022, 443, 136417.	6.6	6
77	Elucidating the relationship between crystallo-chemistry and optical properties of CIGS nanocrystals. <i>Nanotechnology</i> , 2017, 28, 045708.	1.3	4
78	Understanding surface structure and chemistry of single crystal lanthanum aluminate. <i>Scientific Reports</i> , 2017, 7, 43721.	1.6	3
79	Improved mechanical and thermomechanical properties of alumina substrate via iron doping. <i>Scripta Materialia</i> , 2013, 68, 869-872.	2.6	1
80	Study of metal additives to alumina substrate for high temperature and pressure application. , 2012, , .		0