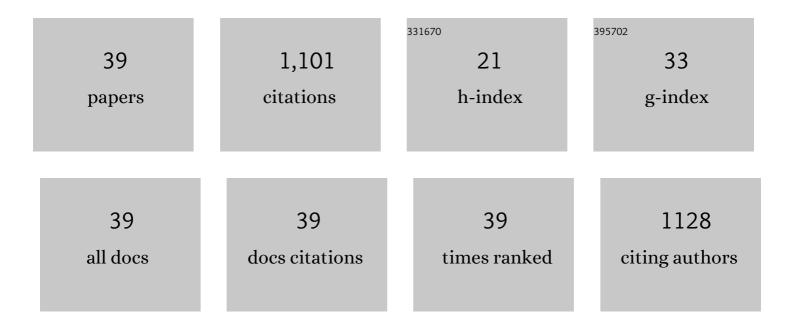
## Manish Agarwal

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2030423/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Role of Reduced CeO <sub>2</sub> (110) Surface for CO <sub>2</sub> Reduction to CO and Methanol. Journal of Physical Chemistry C, 2016, 120, 16626-16635.	3.1	93
2	Relationship between Structure, Entropy, and Diffusivity in Water and Water-Like Liquids. Journal of Physical Chemistry B, 2010, 114, 6995-7001.	2.6	84
3	Thermodynamic, Diffusional, and Structural Anomalies in Rigid-Body Water Models. Journal of Physical Chemistry B, 2011, 115, 6935-6945.	2.6	79
4	Estimating the entropy of liquids from atom–atom radial distribution functions: silica, beryllium fluoride and water. Molecular Physics, 2008, 106, 1925-1938.	1.7	57
5	Tetrahedral order, pair correlation entropy, and waterlike liquid state anomalies: Comparison of GeO2 with BeF2, SiO2, and H2O. Journal of Chemical Physics, 2010, 132, 234507.	3.0	55
6	Local Order, Energy, and Mobility of Water Molecules in the Hydration Shell of Small Peptides. Journal of Physical Chemistry B, 2010, 114, 651-659.	2.6	52
7	Comparison of Tetrahedral Order, Liquid State Anomalies, and Hydration Behavior of mTIP3P and TIP4P Water Models. Journal of Chemical Theory and Computation, 2011, 7, 3354-3367.	5.3	52
8	Relationship between structure, entropy, and mobility in network-forming ionic melts. Physical Review E, 2009, 79, 030202.	2.1	49
9	lonic melts with waterlike anomalies: Thermodynamic properties of liquid BeF2. Journal of Chemical Physics, 2007, 127, 164502.	3.0	46
10	Waterlike Structural and Excess Entropy Anomalies in Liquid Beryllium Fluoride. Journal of Physical Chemistry B, 2007, 111, 13294-13300.	2.6	44
11	Enhanced Polymeric Dielectrics through Incorporation of Hydroxyl Groups. Macromolecules, 2014, 47, 1122-1129.	4.8	43
12	Excess entropy scaling of transport properties in network-forming ionic melts (SiO2 and BeF2). Journal of Chemical Physics, 2011, 134, 014502.	3.0	40
13	Transport Properties of Tetrahedral, Network-Forming Ionic Melts. Journal of Physical Chemistry B, 2009, 113, 15284-15292.	2.6	37
14	Reformulation of Gasoline To Replace Aromatics by Biomass-Derived Alkyl Levulinates. ACS Sustainable Chemistry and Engineering, 2017, 5, 7118-7127.	6.7	33
15	Artificial intelligence and machine learning in glass science and technology: 21 challenges for the 21 <sup>st</sup> century. International Journal of Applied Glass Science, 2021, 12, 277-292.	2.0	28
16	Paradoxical Effect of Trehalose on the Aggregation of α-Synuclein: Expedites Onset of Aggregation yet Reduces Fibril Load. ACS Chemical Neuroscience, 2018, 9, 1477-1491.	3.5	27
17	Oxygen anion diffusion in double perovskite GdBaCo2O5+δ and LnBa0.5Sr0.5Co2â^'xFexO5+δ (LnÂ=ÂGd, Pr,) Tj	etq <sub>q</sub> 11(	).784314 rgB 26

Looking through glass: Knowledge discovery from materials science literature using natural language processing. Patterns, 2021, 2, 100290.

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19	Controlling surface cation segregation in a nanostructured double perovskite GdBaCo <sub>2</sub> O <sub>5+l´</sub> electrode for solid oxide fuel cells. Nanoscale, 2019, 11, 21404-21418.	5.6	24
20	Structural correlations and cooperative dynamics in supercooled liquids. Journal of Chemical Physics, 2012, 137, 024508.	3.0	23
21	ldentifying the Origin of the Limiting Process in a Double Perovskite PrBa <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>1.5</sub> Fe <sub>0.5</sub> O <sub>5+δ</sub> Thin-Film Electrode for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 25243-25253.	8.0	23
22	Redox Sensitive Self-Assembling Dipeptide for Sustained Intracellular Drug Delivery. Bioconjugate Chemistry, 2019, 30, 2458-2468.	3.6	19
23	Evidence of a two-dimensional glass transition in graphene: Insights from molecular simulations. Scientific Reports, 2019, 9, 4517.	3.3	19
24	Structure and transport properties of LiF–BeF2 mixtures: Comparison of rigid and polarizable ion potentials#. Journal of Chemical Sciences, 2012, 124, 261-269.	1.5	15
25	Effective interactions between nanoparticles: Creating temperature-independent solvation environments for self-assembly. Journal of Chemical Physics, 2016, 144, 244901.	3.0	13
26	Non-bonding and bonding interactions of biogenic impurities with the metal catalyst and the design of bimetallic alloys. Journal of Catalysis, 2017, 352, 542-556.	6.2	13
27	Dielectric permittivity enhancement in hydroxyl functionalized polyolefins via cooperative interactions with water. Applied Physics Letters, 2013, 102, 152901.	3.3	11
28	A Car–Parrinello Molecular Dynamics Simulation Study of the Retro Diels–Alder Reaction for Partially Saturated 2-Pyrones in Water. Journal of Physical Chemistry C, 2018, 122, 11599-11607.	3.1	11
29	Understanding the Nature of Amino Acid Interactions with Pd(111) or Pd–Au Bimetallic Catalysts in the Aqueous Phase. Langmuir, 2018, 34, 1300-1310.	3.5	10
30	GPUâ€accelerated direct numerical simulations of decaying compressible turbulence employing a GKMâ€based solver. International Journal for Numerical Methods in Fluids, 2017, 83, 737-754.	1.6	9
31	Mechanistic Elucidation of Surface Cation Segregation in Double Perovskite PrBaCo2O5+δ Material using MD and DFT Simulations for Solid Oxide Fuel Cells. Ionics, 2020, 26, 1307-1314.	2.4	9
32	Elucidating the role of solvents in acid catalyzed dehydration of biorenewable hydroxy-lactones. Reaction Chemistry and Engineering, 2020, 5, 651-662.	3.7	7
33	Thermodynamic regimes over which homologous alkane fluids can be treated as simple liquids. Journal of Molecular Liquids, 2017, 231, 106-115.	4.9	6
34	Effect of Fe-Doping on Oxygen Anion Diffusion in PrBaCo <sub>2-x</sub> Fe <sub>x</sub> O <sub>5+Î</sub> Double Perovskite Electrodes for Solid Oxide Fuel Cells. ECS Transactions, 2017, 77, 125-131.	0.5	6
35	Stress–Strain Relationships in Hydroxyl Substituted Polyethylene. Journal of Physical Chemistry B, 2016, 120, 7598-7605.	2.6	5
36	Evaluation of collective transport properties of ionic melts from molecular dynamics simulations. Journal of Chemical Sciences, 2009, 121, 913-919.	1.5	4

#	Article	IF	CITATIONS
37	Nanoparticle Synthesis and Oxygen Anion Diffusion in Double Perovskite GdBaCo <sub>2-x</sub> Fe <sub>x</sub> O <sub>5+δ</sub> Electrodes for SOFC. ECS Transactions, 2016, 72, 111-116.	0.5	2
38	Ca-Doped Double Perovskite PrBa <sub>0.8</sub> Ca <sub>0.2</sub> Co <sub>2</sub> O <sub>5+δ</sub> Thin-Film Electrodes: Experimental and Theoretical Study. ECS Transactions, 2017, 78, 499-506.	0.5	2
39	Noncovalent Interactions of Biogenic Impurities with Transition Metal Catalyst Surfaces. RSC Catalysis Series, 2019, , 527-547.	0.1	Ο