

# Parthasarathi Bandyopadhyay

## List of Publications by Year in descending order

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31  
papers

1,072  
citations

331538

21  
h-index

434063

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc-nickel-cobalt oxide@NiMoO <sub>4</sub> core-shell nanowire/nanosheet arrays for solid state asymmetric supercapacitors. Chemical Engineering Journal, 2020, 384, 123357.	6.6	133
2	Hexylamine functionalized reduced graphene oxide/polyurethane nanocomposite-coated nylon for enhanced hydrogen gas barrier film. Journal of Membrane Science, 2016, 500, 106-114.	4.1	77
3	Fabrication of functionalized graphene oxide/maleic anhydride grafted polypropylene composite film with excellent gas barrier and anticorrosion properties. Journal of Membrane Science, 2018, 547, 80-92.	4.1	74
4	Graphitic carbon nitride modified graphene/Ni Al layered double hydroxide and 3D functionalized graphene for solid-state asymmetric supercapacitors. Chemical Engineering Journal, 2018, 353, 824-838.	6.6	59
5	Highly gas permeable aromatic polyamides containing adamantane substituted triphenylamine. Journal of Membrane Science, 2015, 474, 20-31.	4.1	55
6	Novel hydroxylated boron nitride functionalized <i>p</i> -phenylenediamine-grafted graphene: an excellent filler for enhancing the barrier properties of polyurethane. Journal of Materials Chemistry A, 2018, 6, 21501-21515.	5.2	53
7	Surface modified graphene oxide/poly(vinyl alcohol) composite for enhanced hydrogen gas barrier film. Polymer Testing, 2016, 50, 49-56.	2.3	52
8	Enhanced gas barrier and anticorrosion performance of boric acid induced cross-linked poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.4	50
9	ZnS@Ni <sub>7</sub> S <sub>6</sub> Nanosheet Arrays Wrapped with Nanopetals of Ni(OH) <sub>2</sub> as a Novel Core@Shell Electrode Material for Asymmetric Supercapacitors with High Energy Density and Cycling Stability Performance. ACS Applied Materials & Interfaces, 2020, 12, 47377-47388.	4.0	49
10	Gas transport properties of aromatic polyamides containing adamantyl moiety. Journal of Membrane Science, 2014, 453, 175-191.	4.1	46
11	Effects of grafting methods for functionalization of graphene oxide by dodecylamine on the physical properties of its polyurethane nanocomposites. Journal of Membrane Science, 2017, 540, 108-119.	4.1	38
12	Enhanced physical properties of two dimensional MoS <sub>2</sub> /poly(vinyl alcohol) nanocomposites. Composites Part A: Applied Science and Manufacturing, 2018, 110, 284-293.	3.8	35
13	Fabrication of hierarchical Zn@Ni@Co@S nanowire arrays and graphitic carbon nitride/graphene for solid-state asymmetric supercapacitors. Applied Surface Science, 2021, 542, 148564.	3.1	35
14	Two-dimensional materials modified layered double hydroxides: A series of fillers for improving gas barrier and permselectivity of poly(vinyl alcohol). Composites Part B: Engineering, 2021, 207, 108568.	5.9	32
15	Synthesis, characterization and gas transport properties of cardo bis(phenylphenyl)fluorene based semifluorinated poly(ether amide)s. RSC Advances, 2014, 4, 28078.	1.7	25
16	Synthesis and characterization of new aromatic poly(ether imide)s and their gas transport properties. European Polymer Journal, 2013, 49, 4212-4223.	2.6	24
17	Proton exchange properties of flexible diamine-based new fluorinated sulfonated polyimides. RSC Advances, 2014, 4, 11848.	1.7	24
18	Facile synthesis of 4,4'-diaminostilbene-2,2'-disulfonic-acid-grafted reduced graphene oxide and its application as a high-performance asymmetric supercapacitor. Chemical Engineering Journal, 2018, 333, 170-184.	6.6	23

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19	Dual-ligand modulation approach for improving supercapacitive performance of hierarchical zinc–nickel–iron phosphide nanosheet-based electrode. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 299-308.	2.9	22
20	Effect of bulky groups on gas transport properties of semifluorinated poly(ether amide)s containing pyridine moiety. <i>European Polymer Journal</i> , 2015, 66, 419-428.	2.6	21
21	Development of hierarchically structured nanosheet arrays of CuMnO <sub>2</sub> -Mn <sub>x</sub> O <sub>y</sub> @graphene foam as a nanohybrid electrode material for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 858, 158343.	2.8	21
22	Semifluorinated, organo-soluble new aromatic poly(ether amide)s: Synthesis, characterization and gas transport properties. <i>Journal of Membrane Science</i> , 2011, 382, 20-29.	4.1	18
23	Spiro[fluorene-9,9'-xanthene] containing fluorinated poly(ether amide)s: Synthesis, characterization and gas transport properties. <i>European Polymer Journal</i> , 2015, 69, 140-155.	2.6	18
24	Rationally designed hierarchical tree-like Fe-Co-P@Ni(OH) <sub>2</sub> hybrid nanoarrays for high energy density asymmetric supercapacitors. <i>Applied Surface Science</i> , 2022, 588, 152857.	3.1	17
25	Synthesis, Characterization and Gas Transport Properties of Polyamide-Tethered Polyhedral Oligomeric Silsesquioxane (POSS) Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 18273-18282.	1.8	16
26	Effect of introduction of cardo cyclohexylidene moiety on gas transport properties of fluorinated poly(arylene ether)s. <i>European Polymer Journal</i> , 2014, 52, 207-217.	2.6	16
27	Cathode of Zn-Ni Layered Double Hydroxide Nanosheet Arrays Wrapped with a Porous NiMoS <sub>x</sub> Shell and Anode of 3D Hierarchical Nitrogen-Doped Carbon for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 9166-9177.	2.5	15
28	Hierarchical MCo <sub>2</sub> O <sub>4</sub> @Ni(OH) <sub>2</sub> (M=Zn or Mn) core@shell architectures as electrode materials for asymmetric solid-state supercapacitors. <i>Journal of Energy Storage</i> , 2021, 44, 103345.	3.9	8
29	Metal-organic framework-derived (Mn-1)Co <sub>x</sub> Sy@(Ni–Cu)OHs marigold flower-like core@shell as cathode and (Mn–Fe) <sub>10</sub> S <sub>x</sub> @graphene foam as anode materials for ultra-high energy-density asymmetric supercapacitor. <i>Materials Today Chemistry</i> , 2022, 23, 100758.	1.7	8
30	Facile In Situ Synthesis of Co(OH) <sub>2</sub> –Ni <sub>3</sub> S <sub>2</sub> Nanowires on Ni Foam for Use in High-Energy-Density Supercapacitors. <i>Nanomaterials</i> , 2022, 12, 34.	1.9	5
31	New Semifluorinated Aromatic Copoly(etheramide)s Containing Heterocyclic Moiety and a Comparative Study of Gas Transport Properties with the Homopolymers. <i>Advanced Science, Engineering and Medicine</i> , 2013, 5, 815-826.	0.3	3