# Natrayasamy Viswanathan

## List of Publications by Year in descending order



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|---|---|---|---|
| 91 papers | 4,791 citations | 87723 38 h-index | 98622 67 g-index |
| 92 all docs | 92 docs citations | 92 times ranked | 2857 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Facile hydrothermal fabrication of functionalized multiâ€layer graphene oxide encapsulated chitosan beads for enriched fluoride adsorption. Journal of Applied Polymer Science, 2022, 139, 51703. | 1.3 | 13 |
| 2 | Development of cerium-trimesic acid complexed 2D frameworks for effective nitrate and phosphate remediation. Journal of Molecular Structure, 2022, 1250, 131873. | 1.8 | 3 |
| 3 | Eco-friendly design of functionalized graphene oxide incorporated alginate beads for selective fluoride retention. Diamond and Related Materials, 2022, 121, 108747. | 1.8 | 11 |
| 4 | Fabrication of Multi-functionalized Graphene Oxide Doped Alginate Hybrid Spheres for Enhanced Fluoride Adsorption. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 216-228. | 1.9 | 14 |
| 5 | A facile synthesis of 2D iron bridged trimesic acid based MOFs for superior nitrate and phosphate retention. Journal of Environmental Chemical Engineering, 2022, 10, 107233. | 3.3 | 14 |
| 6 | Fabrication of hydroxyapatite embedded cerium-organic frameworks for fluoride capture from water. Journal of Molecular Liquids, 2022, 354, 118830. | 2.3 | 28 |
| 7 | Rationally designed and hierarchically structured functionalized aluminium organic frameworks incorporated chitosan hybrid beads for defluoridation of water. International Journal of Biological Macromolecules, 2022, 207, 941-951. | 3.6 | 22 |
| 8 | Facile Fabrication of Zirconiumâ€“Organic Frameworkâ€“Embedded Chitosan Hybrid Spheres for Efficient Fluoride Adsorption. ACS ES&T Water, 2022, 2, 52-62. | 2.3 | 11 |
| 9 | Development and characterization of hydroxyapatite layered lanthanum organic frameworks by template method for defluoridation of water. Journal of Colloid and Interface Science, 2022, 622, 228-238. | 5.0 | 33 |
| 10 | Investigation of Hydroxyapatite-Entrenched Cerium Organic Frameworks Incorporating Biopolymeric Beads for Efficient Fluoride Removal. Industrial & Engineering Chemistry Research, 2022, 61, 7911-7925. | 1.8 | 19 |
| 11 | Design and development of amine functionalized iron based metal organic frameworks for selective fluoride removal from water environment. Journal of Environmental Chemical Engineering, 2021, 9, 104563. | 3.3 | 61 |
| 12 | Fabrication of amino functionalized benzene-1,4-dicarboxylic acid facilitated cerium based metal organic frameworks for efficient removal of fluoride from water environment. Environmental Science: Water Research and Technology, 2021, 7, 384-395. | 1.2 | 29 |
| 13 | Superficial development of Lewis zirconium ion cross-linked gelatin/kaolin hybrid composite for nutrients remediation. Journal of Molecular Liquids, 2021, 324, 114982. | 2.3 | 5 |
| 14 | Development of triaminotriazine functionalized graphene oxide capped chitosan porous composite beads for nutrients remediation towards water purification. International Journal of Biological Macromolecules, 2021, 170, 13-23. | 3.6 | 14 |
| 15 | Facile design of metal ion fabricated benzene-1,3,5-tricarboxylic acid based metal organic frameworks for defluoridation of water. Journal of Environmental Chemical Engineering, 2021, 9, 104995. | 3.3 | 22 |
| 16 | Facile synthesis of tunable rare earth based metal organic frameworks for enhanced fluoride retention. Journal of Molecular Liquids, 2021, 326, 115163. | 2.3 | 47 |
| 17 | Design and synthesis of amine grafted graphene oxide encapsulated chitosan hybrid beads for defluoridation of water. International Journal of Biological Macromolecules, 2021, 182, 1843-1851. | 3.6 | 14 |
| 18 | Design and fabrication of sulfonic acid functionalized graphene oxide for enriched fluoride adsorption. Diamond and Related Materials, 2021, 117, 108446. | 1.8 | 11 |

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|---|---|---|---|
| 19 | Design and synthesis of amine functionalized graphene oxide for enhanced fluoride removal. Journal of Environmental Chemical Engineering, 2021, 9, 105384. | 3.3 | 24 |
| 20 | Fabrication of lanthanum linked trimesic acid as porous metal organic frameworks for effective nitrate and phosphate adsorption. Journal of Solid State Chemistry, 2021, 302, 122446. | 1.4 | 34 |
| 21 | Complex Fabrication of Zr<sup>4+</sup>, La<sup>3+</sup>, and Ce<sup>3+</sup> Coordinated Alginate-Assisted Bentonite-Based Hybrid Beads for Nitrate Removal. Journal of Chemical & Engineering Data, 2021, 66, 979-989. | 1.0 | 10 |
| 22 | Fabrication and analyzing of Drypetes sepiaria encapsulated chitosan hybrid beads as anticorrosion agent. Materials Today: Proceedings, 2021, 47, 1929-1936. | 0.9 | 0 |
| 23 | Fabrication of zirconium(IV) cross-linked alginate/kaolin hybrid beads for nitrate and phosphate retention. Arabian Journal of Chemistry, 2020, 13, 4111-4125. | 2.3 | 41 |
| 24 | Activated Carbon from Different Waste Materials for the Removal of Toxic Metals. Environmental Chemistry for A Sustainable World, 2020, , 47-68. | 0.3 | 12 |
| 25 | Hydrothermal fabrication of triazine-functionalized covalent organic polymer enfolded alginate biocomposite beads for Cr(vi) removal from water. Environmental Science: Water Research and Technology, 2020, 6, 851-863. | 1.2 | 17 |
| 26 | Facile fabrication of tunable porous zirconium fumarate based metal organic frameworks in the retention of nutrients from water. Environmental Science: Water Research and Technology, 2020, 6, 2856-2870. | 1.2 | 17 |
| 27 | Design of Amino-Functionalized Benzene-1,4-Dicarboxylic Acid-Fabricated Lanthanum-Based Metalâ€“Organic Frameworks for Defluoridation of Water. Journal of Chemical & Engineering Data, 2020, 65, 5328-5340. | 1.0 | 54 |
| 28 | Microfabrication of Triazine Functionalized Graphene Oxide Anchored Alginate Bead System for Effective Nutrients Removal. Journal of Chemical & Engineering Data, 2020, 65, 2712-2724. | 1.0 | 22 |
| 29 | Development of Multivalent Metal-Ion-Fabricated Fumaric Acid-Based Metalâ€“Organic Frameworks for Defluoridation of Water. Journal of Chemical & Engineering Data, 2020, 65, 2990-3001. | 1.0 | 53 |
| 30 | Effect of polyvalent metal ions encrusted biopolymeric hybrid beads on nitrate adsorption. Journal of Environmental Chemical Engineering, 2020, 8, 103894. | 3.3 | 20 |
| 31 | Micro-encapsulation and hydrothermal tuning of amine decorated magnetic alginate hybrid beads for nitrate and phosphate remediation. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 283-296. | 2.7 | 20 |
| 32 | Hydrothermal Fabrication of Amine-Grafted Magnetic Gelatin Hybrid Composite for Effective Adsorption of Nitrate and Phosphate. Industrial & Engineering Chemistry Research, 2019, 58, 21521-21530. | 1.8 | 27 |
| 33 | Hydrothermal Synthesis of Melamine-Functionalized Covalent Organic Polymer-Blended Alginate Beads for Iron Removal from Water. Journal of Chemical & Engineering Data, 2019, 64, 2280-2291. | 1.0 | 15 |
| 34 | Hydrothermal synthesis of magnetic iron oxide encrusted hydrocalumite-chitosan composite for defluoridation studies. International Journal of Biological Macromolecules, 2019, 132, 600-605. | 3.6 | 31 |
| 35 | Development of chitosan encapsulated tricalcium phosphate biocomposite for fluoride retention. International Journal of Biological Macromolecules, 2019, 133, 811-816. | 3.6 | 23 |
| 36 | Fabrication of nano-graphene oxide assisted hydrotalcite/chitosan biocomposite: An efficient adsorbent for chromium removal from water. International Journal of Biological Macromolecules, 2019, 132, 1068-1078. | 3.6 | 34 |

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| 37 | Hydrothermal encapsulation of lanthanum oxide derived Aegle marmelos admixed chitosan bead system for nitrate and phosphate retention. International Journal of Biological Macromolecules, 2019, 130, 527-535. | 3.6 | 50 |
| 38 | Development of Magnetic Particles Encrusted LDH-Admixed Biopolymeric Complex Beads for Selective Phosphate Remediation. Journal of Chemical & Engineering Data, 2019, 64, 5725-5736. | 1.0 | 14 |
| 39 | Efficient Removal of Aqueous Aromatic Pollutants by Various Techniques. , 2019, , 261-285. | | 2 |
| 40 | Enhanced Chromium Sorption and Quick Separation of Magnetic Hydrotalcite Anchored Biopolymeric Composites Using the Hydrothermal Method. Journal of Chemical & Engineering Data, 2018, 63, 1286-1299. | 1.0 | 19 |
| 41 | Hydrothermal synthesis of hydrocalumite assisted biopolymeric hybrid composites for efficient Cr(<scp>vi</scp>) removal from water. New Journal of Chemistry, 2018, 42, 3371-3382. | 1.4 | 29 |
| 42 | Development and Reuse of Amine-Grafted Chitosan Hybrid Beads in the Retention of Nitrate and Phosphate. Journal of Chemical & Engineering Data, 2018, 63, 147-158. | 1.0 | 83 |
| 43 | Hydrothermal assisted magnetic nano-hydroxyapatite encapsulated alginate beads for efficient Cr(VI) uptake from water. Journal of Environmental Chemical Engineering, 2018, 6, 1443-1454. | 3.3 | 57 |
| 44 | Fabrication of magnetic particles reinforced nano-hydroxyapatite/gelatin composite for selective Cr(<scp>vi</scp>) removal from water. Environmental Science: Water Research and Technology, 2018, 4, 783-794. | 1.2 | 21 |
| 45 | A facile synthesis of magnetic particles sprayed gelatin embedded hydrotalcite composite for effective phosphate sorption. Journal of Environmental Chemical Engineering, 2018, 6, 208-217. | 3.3 | 31 |
| 46 | Preparation and testing of a tetra-amine copper(II) chitosan bead system for enhanced phosphate remediation. Carbohydrate Polymers, 2018, 183, 173-182. | 5.1 | 35 |
| 47 | Hydrothermal Fabrication of Zirconium Oxyhydroxide Capped Chitosan/Kaolin Framework for Highly Selective Nitrate and Phosphate Retention. Industrial & Engineering Chemistry Research, 2018, 57, 14470-14481. | 1.8 | 38 |
| 48 | Remediation of fluoride from drinking water using magnetic iron oxide coated hydrotalcite/chitosan composite. International Journal of Biological Macromolecules, 2017, 104, 1569-1577. | 3.6 | 49 |
| 49 | Fabrication of metal ions cross-linked alginate assisted biocomposite beads for selective phosphate removal. Journal of Environmental Chemical Engineering, 2017, 5, 1438-1446. | 3.3 | 61 |
| 50 | Fabrication of magnetic particles imprinted cellulose based biocomposites for chromium(VI) removal. Carbohydrate Polymers, 2017, 174, 352-359. | 5.1 | 71 |
| 51 | Development of multivalent metal ions imprinted chitosan biocomposites for phosphate sorption. International Journal of Biological Macromolecules, 2017, 104, 1539-1547. | 3.6 | 66 |
| 52 | Role of Eco-Friendly Adsorbents in Defluoridation of Water. , 2017, , 57-97. | | 0 |
| 53 | A facile synthesis of metal ion-imprinted graphene oxide/alginate hybrid biopolymeric beads for enhanced fluoride sorption. RSC Advances, 2016, 6, 75905-75915. | 1.7 | 34 |
| 54 | Synthesis of assorted metal ions anchored alginate bentonite biocomposites for Cr(VI) sorption. Carbohydrate Polymers, 2016, 151, 1100-1109. | 5.1 | 35 |

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|---|---|---|---|
| 55 | One pot eco-friendly synthesis of highly dispersed alumina supported alginate biocomposite for efficient chromium(VI) removal. Journal of Water Process Engineering, 2016, 10, 113-119. | 2.6 | 30 |
| 56 | In Situ Fabrication of Magnetic Iron Oxide over Nano-hydroxyapatite Gelatin Eco-polymeric Composite for Defluoridation Studies. Journal of Chemical & Engineering Data, 2016, 61, 571-578. | 1.0 | 48 |
| 57 | One pot synthesis of metal ion anchored alginateâ€“gelatin binary biocomposite for efficient Cr(VI) removal. International Journal of Biological Macromolecules, 2016, 83, 450-459. | 3.6 | 32 |
| 58 | Synthesis of alginate beads filled with nanohydroxyapatite: An efficient approach for fluoride sorption. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 37 |
| 59 | Synthesis and applications of eco-magnetic nano-hydroxyapatite chitosan composite for enhanced fluoride sorption. Carbohydrate Polymers, 2015, 134, 732-739. | 5.1 | 53 |
| 60 | Enhanced defluoridation and facile separation of magnetic nano-hydroxyapatite/alginate composite. International Journal of Biological Macromolecules, 2015, 80, 341-349. | 3.6 | 53 |
| 61 | Development of Nano-Hydroxyapatite Embedded Gelatin Biocomposite for Effective Chromium(VI) Removal. Industrial & Engineering Chemistry Research, 2015, 54, 12561-12569. | 1.8 | 54 |
| 62 | In situ precipitation of nano-hydroxyapatite in gelatin polymatrix towards specific fluoride sorption. International Journal of Biological Macromolecules, 2015, 74, 351-359. | 3.6 | 47 |
| 63 | Synthesis of magnetic alginate hybrid beads for efficient chromium (VI) removal. International Journal of Biological Macromolecules, 2015, 72, 862-867. | 3.6 | 103 |
| 64 | A novel metal coordination enabled in carboxylated alginic acid for effective fluoride removal. Carbohydrate Polymers, 2015, 118, 242-249. | 5.1 | 41 |
| 65 | Remediation of Fluoride Using Montmorillonite@Chitosan Biocomposite. Journal of Chitin and Chitosan Science, 2015, 3, 39-45. | 0.3 | 2 |
| 66 | Synthesis of alginate bioencapsulated nano-hydroxyapatite composite for selective fluoride sorption. Carbohydrate Polymers, 2014, 112, 662-667. | 5.1 | 92 |
| 67 | Synthesis of metal ion entrapped silica gel/chitosan biocomposite for defluoridation studies. International Journal of Biological Macromolecules, 2014, 70, 347-353. | 3.6 | 31 |
| 68 | Defluoridation of water using chitosan assisted ethylenediamine functionalized synthetic polymeric blends. International Journal of Biological Macromolecules, 2014, 70, 621-627. | 3.6 | 18 |
| 69 | Development of amine functionalized co-polymeric resins for selective fluoride sorption. Journal of Fluorine Chemistry, 2013, 153, 143-150. | 0.9 | 28 |
| 70 | Synthesis and Characterization of a Few Amino-Functionalized Copolymeric Resins and Their Environmental Applications. Industrial & Engineering Chemistry Research, 2012, 51, 5677-5684. | 1.8 | 24 |
| 71 | Sorption behaviour of copper on chemically modified chitosan beads from aqueous solution. Carbohydrate Polymers, 2011, 83, 1082-1087. | 5.1 | 84 |
| 72 | Development of chitosan supported zirconium(IV) tungstophosphate composite for fluoride removal. Journal of Hazardous Materials, 2010, 176, 459-465. | 6.5 | 101 |

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|---|---|---|---|
| 73 | Enriched fluoride sorption using alumina/chitosan composite. Journal of Hazardous Materials, 2010, 178, 226-232. | 6.5 | 149 |
| 74 | Preparation and application of alumina/chitosan biocomposite. International Journal of Biological Macromolecules, 2010, 47, 146-154. | 3.6 | 102 |
| 75 | Preparation and metal uptake studies of modified forms of chitin. International Journal of Biological Macromolecules, 2010, 47, 583-589. | 3.6 | 32 |
| 76 | Selective fluoride adsorption by a hydrotalcite/chitosan composite. Applied Clay Science, 2010, 48, 607-611. | 2.6 | 107 |
| 77 | Enhanced and selective fluoride sorption on Ce(III) encapsulated chitosan polymeric matrix. Journal of Applied Polymer Science, 2009, 112, 1114-1121. | 1.3 | 25 |
| 78 | Sorption behaviour of fluoride on carboxylated cross-linked chitosan beads. Colloids and Surfaces B: Biointerfaces, 2009, 68, 48-54. | 2.5 | 95 |
| 79 | Removal of fluoride from aqueous solution using protonated chitosan beads. Journal of Hazardous Materials, 2009, 161, 423-430. | 6.5 | 200 |
| 80 | Role of metal ion incorporation in ion exchange resin on the selectivity of fluoride. Journal of Hazardous Materials, 2009, 162, 920-930. | 6.5 | 95 |
| 81 | Defluoridation of water using magnesia/chitosan composite. Journal of Hazardous Materials, 2009, 163, 618-624. | 6.5 | 163 |
| 82 | Development of multifunctional chitosan beads for fluoride removal. Journal of Hazardous Materials, 2009, 167, 325-331. | 6.5 | 51 |
| 83 | Fluoride sorption by nano-hydroxyapatite/chitin composite. Journal of Hazardous Materials, 2009, 172, 147-151. | 6.5 | 131 |
| 84 | Synthesis of Zr(IV) entrapped chitosan polymeric matrix for selective fluoride sorption. Colloids and Surfaces B: Biointerfaces, 2009, 72, 88-93. | 2.5 | 67 |
| 85 | Enhanced fluoride sorption using La(III) incorporated carboxylated chitosan beads. Journal of Colloid and Interface Science, 2008, 322, 375-383. | 5.0 | 178 |
| 86 | Selective sorption of fluoride using Fe(III) loaded carboxylated chitosan beads. Journal of Fluorine Chemistry, 2008, 129, 503-509. | 0.9 | 98 |
| 87 | Effect of metal ion loaded in a resin towards fluoride retention. Journal of Fluorine Chemistry, 2008, 129, 645-653. | 0.9 | 46 |
| 88 | Defluoridation chemistry of synthetic hydroxyapatite at nano scale: Equilibrium and kinetic studies. Journal of Hazardous Materials, 2008, 155, 206-215. | 6.5 | 252 |
| 89 | Uptake of fluoride by nano-hydroxyapatite/chitosan, a bioinorganic composite. Bioresource Technology, 2008, 99, 8226-8230. | 4.8 | 190 |
| 90 | Identification of selective ion-exchange resin for fluoride sorption. Journal of Colloid and Interface Science, 2007, 308, 438-450. | 5.0 | 411 |

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|---|---|---|---|
| 91 | Role of Metalâ''Organic Frameworks for Removal of Toxic Ions. ACS Symposium Series, 0, , 53-76. | 0.5 | 1 |