Kasturi Muthoosamy

List of Publications by Year
in descending order

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32 papers	1,785 citations	331259 21 h-index	500791 28 g-index
32 all docs	32 docs citations	32 times ranked	3056 citing authors

#	Article	IF	Citations
1	Nanomaterials for Nanotheranostics: Tuning Their Properties According to Disease Needs. ACS Nano, 2020, 14, 2585-2627.	7.3	239
2	Functionalized fullerene (C 60) as a potential nanomediator in the fabrication of highly sensitive biosensors. Biosensors and Bioelectronics, 2015, 63, 354-364.	5.3	163
3	State of the art and recent advances in the ultrasound-assisted synthesis, exfoliation and functionalization of graphene derivatives. Ultrasonics Sonochemistry, 2017, 39, 478-493.	3.8	146
4	Graphene-based 3D scaffolds in tissue engineering: fabrication, applications, and future scope in liver tissue engineering . International Journal of Nanomedicine, 2019, Volume 14, 5753-5783.	3.3	130
5	Graphene: A versatile platform for nanotheranostics and tissue engineering. Progress in Materials Science, 2018, 91, 24-69.	16.0	127
6	Exceedingly biocompatible and thin-layered reduced graphene oxide nanosheets using an eco-friendly mushroom extract strategy. International Journal of Nanomedicine, 2015, 10, 1505.	3.3	122
7	Site-Selective Lysine Modification of Native Proteins and Peptides via Kinetically Controlled Labeling. Bioconjugate Chemistry, 2012, 23, 500-508.	1.8	105
8	The biogenic synthesis of a reduced graphene oxideâ€“silver (RGOâ€“Ag) nanocomposite and its dual applications as an antibacterial agent and cancer biomarker sensor. RSC Advances, 2016, 6, 36576-36587.	1.7	97
9	Sonochemical and sustainable synthesis of graphene-gold (G-Au) nanocomposites for enzymeless and selective electrochemical detection of nitric oxide. Biosensors and Bioelectronics, 2017, 87, 622-629.	5.3	91
10	Exceedingly Higher co-loading of Curcumin and Paclitaxel onto Polymer-functionalized Reduced Graphene Oxide for Highly Potent Synergistic Anticancer Treatment. Scientific Reports, 2016, 6, 32808.	1.6	84
11	Graphene and Graphene Oxide as a Docking Station for Modern Drug Delivery System. Current Drug Delivery, 2014, 11, 701-718.	0.8	66
12	Acoustic cavitation induced generation of stabilizer-free, extremely stable reduced graphene oxide nanodispersion for efficient delivery of paclitaxel in cancer cells. Ultrasonics Sonochemistry, 2017, 36, 129-138.	3.8	50
13	In-situ surface functionalization of superparamagnetic reduced graphene oxide â€“ Fe3O4 nanocomposite via Ganoderma lucidum extract for targeted cancer therapy application. Applied Surface Science, 2020, 512, 145738.	3.1	45
14	Fabrication and Characterization of an Electrospun PHA/Graphene Silver Nanocomposite Scaffold for Antibacterial Applications. Materials, 2018, 11, 1673.	1.3	42
15	Hydration or hydroxylation: direct synthesis of fullerenol from pristine fullerene [C₆₀] via acoustic cavitation in the presence of hydrogen peroxide. RSC Advances, 2017, 7, 31930-31939.	1.7	40
16	The mechanics of carbon-based nanomaterials as cement reinforcement â€” A critical review. Construction and Building Materials, 2021, 303, 124441.	3.2	31
17	Integrating gold nanoclusters, folic acid and reduced graphene oxide for nanosensing of glutathione based on â€œturn-offâ€•fluorescence. Scientific Reports, 2021, 11, 2375.	1.6	29
18	Biosustainable production of nanoparticles via mycogenesis for biotechnological applications: A critical review. Environmental Research, 2022, 204, 111963.	3.7	25

#	Article	IF	Citations
19	Modification of polypropylene filter with metal oxide and reduced graphene oxide for water treatment. Ceramics International, 2014, 40, 6927-6936.	2.3	24
20	Sono-nano chemistry: A new era of synthesising polyhydroxylated carbon nanomaterials with hydroxyl groups and their industrial aspects. Ultrasonics Sonochemistry, 2019, 51, 451-461.	3.8	23
21	Highly Sensitive Electrochemical Biosensor Using Folic Acid-Modified Reduced Graphene Oxide for the Detection of Cancer Biomarker. Nanomaterials, 2021, 11, 1272.	1.9	23
22	Conjugation of insulin onto the sidewalls of single-walled carbon nanotubes through functionalization and diimide-activated amidation. International Journal of Nanomedicine, 2016, 11, 1607.	3.3	19
23	Site-selective azide incorporation into endogenous RNase A via a â€œchemistryâ€•approach. Organic and Biomolecular Chemistry, 2013, 11, 353-361.	1.5	15
24	Fluorescence â€œturn-off/turn-onâ€•biosensing of metal ions by gold nanoclusters, folic acid and reduced graphene oxide. Analytica Chimica Acta, 2021, 1175, 338745.	2.6	12
25	Amplification-free and direct fluorometric determination of telomerase activity in cell lysates using chimeric DNA-templated silver nanoclusters. Mikrochimica Acta, 2019, 186, 81.	2.5	10
26	Design of bio-oil additives via molecular signature descriptors using a multi-stage computer-aided molecular design framework. Frontiers of Chemical Science and Engineering, 2022, 16, 168-182.	2.3	9
27	Nanomedicine in Theranostics. , 2015, , 195-213.		7
28	Formulation of DNA chimera templates: Effects on emission behavior of silver nanoclusters and sensing. Analytica Chimica Acta, 2018, 1010, 62-68.	2.6	6
29	Computer-Aided Framework for the Design of Optimal Bio-Oil/Solvent Blend with Economic Considerations. Processes, 2021, 9, 2159.	1.3	3
30	Functionalization of Graphene for Nanodelivery of Drugs. , 2019, , 157-176.		2
31	A Marking Scheme Rubric: To Assess Students' Mathematical Knowledge for Applied Algebra Test. Asian Social Science, 2015, 11, .	0.1	0
32	Graphene Metal Nanoclusters in Cutting-Edge Theranostics Nanomedicine Applications. Advanced Structured Materials, 2017, , 429-477.	0.3	0