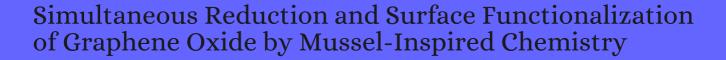
CITATION REPORT List of articles citing



DOI: 10.1002/adfm.201001692 Advanced Functional Materials, 2011, 21, 108-112.

Source: https://exaly.com/paper-pdf/51485345/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
381	Dopamine-melanin film deposition depends on the used oxidant and buffer solution. 2011 , 27, 2819-25		386
380	Using self-polymerized dopamine to modify the antifouling property of oligo(ethylene glycol) self-assembled monolayers and its application in cell patterning. 2011 , 27, 5709-12		49
379	Polydopaminea nature-inspired polymer coating for biomedical science. <i>Nanoscale</i> , 2011 , 3, 4916-28	7.7	651
378	Attenuation of the in vivo toxicity of biomaterials by polydopamine surface modification. 2011 , 6, 793-8	801	222
377	Biomimetic fabrication of information-rich phenolic-chitosan films. 2011 , 7, 9601		42
376	Evaluation Criteria for Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11327-1133	8 5 .8	409
375	Bioinspired catecholic chemistry for surface modification. 2011 , 40, 4244-58		935
374	Optically and biologically active mussel protein-coated double-walled carbon nanotubes. 2011 , 7, 3292-	-7	29
373	Recent advances in the covalent modification of graphene with polymers. 2011 , 32, 1771-89		252
372	Mussel-inspired block copolymer lithography for low surface energy materials of teflon, graphene, and gold. <i>Advanced Materials</i> , 2011 , 23, 5618-22	24	167
371	Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. <i>Carbon</i> , 2011 , 49, 4724-4730	10.4	322
370	One-step reduction of graphene oxide with l-glutathione. 2011 , 384, 543-548		155
369	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. 2011 , 22, 494020		60
368	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. 2012, 229-231, 2749-2752		
367	General and biomimetic approach to biopolymer-functionalized graphene oxide nanosheet through adhesive dopamine. 2012 , 13, 4236-46		127
366	Graphene oxide as a high-performance fluid-loss-control additive in water-based drilling fluids. <i>ACS Applied Materials & Discrete Applied & Discrete Applied</i>	9.5	180
365	Chapter 8:Dispersible Graphene Oxide B olymer Nanocomposites. 2012 , 179-210		2

364	Water Detoxification by a Substrate-Bound Catecholamine Adsorbent. 2012 , 77, 987-990	55
363	Characterization and electrical properties of honeycomb-patterned poly(Etaprolactone)/reduced graphene oxide composite film. 2012 , 33, 2159-2168	12
362	Bio-inspired catechol chemistry: a new way to develop a re-moldable and injectable coacervate hydrogel. 2012 , 48, 11895-7	38
361	Exfoliation of non-oxidized graphene flakes for scalable conductive film. 2012 , 12, 2871-6	145
360	A high throughput method for preparation of highly conductive functionalized graphene and conductive polymer nanocomposites. 2012 , 2, 2208	49
359	One-Pot Controlled Synthesis of Homopolymers and Diblock Copolymers Grafted Graphene Oxide Using Couplable RAFT Agents. 2012 , 45, 1346-1355	54
358	Magneto-controlled electrochemical immunoassay of brevetoxin B in seafood based on guanine-functionalized graphene nanoribbons. 2012 , 38, 86-93	45
357	Simultaneous Reduction and Surface Functionalization of Graphene Oxide for Hydroxyapatite Mineralization. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3334-3341	170
356	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. 2012 , 41, 97-114	432
355	Highly electrically conductive layered carbon derived from polydopamine and its functions in SnO2-based lithium ion battery anodes. 2012 , 48, 10316-8	185
354	Modification of graphene/graphene oxide with polymer brushes using controlled/living radical polymerization. 2012 , 50, 2981-2992	82
353	Rapid and energy-efficient synthesis of a graphene L uCo hybrid as a high performance catalyst. 2012 , 22, 10990	125
352	Highly conductive graphene by low-temperature thermal reduction and in situ preparation of conductive polymer nanocomposites. <i>Nanoscale</i> , 2012 , 4, 4968-71	58
351	Graphene oxide and its reduction: modeling and experimental progress. 2012 , 2, 2643	418
350	Stable and Water-Dispersible Graphene Nanosheets: Sustainable Preparation, Functionalization, and High-Performance Adsorbents for Pb2+. 2012 , 77, 379-386	36
349	Lithium Aluminum Hydride as Reducing Agent for Chemically Reduced Graphene Oxides. 2012 , 24, 2292-2298	155
348	Peculiar reduction of graphene oxide into graphene after diffusion in exponentially growing polyelectrolyte multilayers. <i>Journal of Colloid and Interface Science</i> , 2012 , 377, 489-96	4
347	Chemical functionalization of graphene and its applications. 2012 , 57, 1061-1105	1351

346	Deposition Mechanism and Properties of Thin Polydopamine Films for High Added Value Applications in Surface Science at the Nanoscale. 2012 , 2, 16-34		118
345	Temperature and pH-tunable fluorescence nanoplatform with graphene oxide and BODIPY-conjugated polymer for cell imaging and therapy. 2013 , 34, 1408-15		30
344	Electrochemical detection of dopamine based on pre-concentration by graphene nanosheets. 2013 , 138, 6044-51		48
343	Identifying efficient natural bioreductants for the preparation of graphene and graphene-metal nanoparticle hybrids with enhanced catalytic activity from graphite oxide. <i>Carbon</i> , 2013 , 63, 30-44	10.4	38
342	Polydopamine-assisted decoration of ZnO nanorods with Ag nanoparticles: an improved photoelectrochemical anode. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5045-5052	13	96
34 ¹	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. 2013 , 25, 1-5		9
340	Application of graphene-pyrenebutyric acid nanocomposite as probe oligonucleotide immobilization platform in a DNA biosensor. 2013 , 33, 3851-7		33
339	A selective artificial enzyme inhibitor based on nanoparticle-enzyme interactions and molecular imprinting. <i>Advanced Materials</i> , 2013 , 25, 5922-7	24	40
338	Surface Modification of Graphene. 2013 , 35-86		2
337	Bio-inspired in situ growth of monolayer silver nanoparticles on graphene oxide paper as multifunctional substrate. <i>Nanoscale</i> , 2013 , 5, 12616-23	7.7	64
336	Simultaneous enhancement of mechanical, electrical and thermal properties of graphene oxide paper by embedding dopamine. <i>Carbon</i> , 2013 , 65, 296-304	10.4	152
335	Mussel-inspired thermosensitive polydopamine-graft-poly(N-isopropylacrylamide) coating for controlled-release fertilizer. 2013 , 61, 12232-7		50
334	Mussel-inspired polydopamine: a biocompatible and ultrastable coating for nanoparticles in vivo. 2013 , 7, 9384-95		428
333	Efficient One-Pot Synthesis of Mussel-Inspired Molecularly Imprinted Polymer Coated Graphene for Protein-Specific Recognition and Fast Separation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18448-184	-5 6 8	100
332	Structural Determination of Thermally and Hydrazine Treated Graphene Oxide Using Electron Spectroscopic Analysis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21312-21319	3.8	19
331	Engineering microstructured porous films for multiple applications via mussel-inspired surface coating. 2013 , 3, 25291		15
330	Catechol-based biomimetic functional materials. Advanced Materials, 2013, 25, 653-701	24	548
329	Mussel-inspired functionalization of graphene for synthesizing Ag-polydopamine-graphene nanosheets as antibacterial materials. <i>Nanoscale</i> , 2013 , 5, 118-23	7.7	177

(2013-2013)

328	2013, 51, 303-310		30
327	Low-temperature solution-processed graphene oxide derivative hole transport layer for organic solar cells. 2013 , 46, 135101		7
326	Assembled gold nanoparticles on nitrogen-doped graphene for ultrasensitive electrochemical detection of matrix metalloproteinase-2. <i>Carbon</i> , 2013 , 61, 357-366	10.4	78
325	Chemically stable poly(norepinephrine) coatings on solid substrates by post-oxidation. 2013, 98, 1271-	1273	17
324	Triggered pH/redox responsive release of doxorubicin from prepared highly stable graphene with thiol grafted Pluronic. 2013 , 450, 208-17		39
323	How do the electrical properties of graphene change with its functionalization?. 2013 , 9, 341-50		230
322	Biopolymer functionalized reduced graphene oxide with enhanced biocompatibility via mussel inspired coatings/anchors. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 265-275	7.3	213
321	Mussel-inspired synthesis of polydopamine-functionalized graphene hydrogel as reusable adsorbents for water purification. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 425-32	9.5	543
320	Carbon-based nanomaterials for tissue engineering. 2013 , 2, 244-60		160
319	Fusion of nacre, mussel, and lotus leaf: bio-inspired graphene composite paper with multifunctional integration. <i>Nanoscale</i> , 2013 , 5, 5758-64	7.7	57
318	Simultaneous functionalization and reduction of graphene oxide with diatom silica. 2013 , 48, 3415-342	1	11
317	Chemical modification of graphene oxide with carbethoxycarbene under microwave irradiation. 2013 , 556, 376-379		26
316	Realizing ultrahigh modulus and high strength of macroscopic graphene oxide papers through crosslinking of mussel-inspired polymers. <i>Advanced Materials</i> , 2013 , 25, 2980-3	24	299
315	Dual-responsive capsules with tunable low critical solution temperatures and their loading and release behavior. 2013 , 29, 5631-7		55
314	Catechols as versatile platforms in polymer chemistry. <i>Progress in Polymer Science</i> , 2013 , 38, 236-270	29.6	422
313	pH-responsive controlled-release fertilizer with water retention via atom transfer radical polymerization of acrylic acid on mussel-inspired initiator. 2013 , 61, 5474-82		51
312	Biomimetic assembly of polydopamine-layer on graphene: Mechanisms, versatile 2D and 3D architectures and pollutant disposal. <i>Chemical Engineering Journal</i> , 2013 , 228, 468-481	14.7	127
311	Recyclable and stable silver deposited magnetic nanoparticles with poly (vinyl pyrrolidone)-catechol coated iron oxide for antimicrobial activity. 2013 , 33, 3786-94		54

310	Bioinspired polydopamine as the scaffold for the active AuNPs anchoring and the chemical simultaneously reduced graphene oxide: characterization and the enhanced biosensing application. 2013 , 49, 466-71		42
309	Fabrication and characterization of honeycomb-patterned film from poly(e-caprolactone)/poly((R)-3-hydroxybutyric acid)/reduced graphene oxide composite. 2013 , 45, 10	64-107	1 ⁹
308	Universal multilayer assemblies of graphene in chemically resistant microtubes for microextraction. 2013 , 85, 6846-54		82
307	Successful stabilization of functionalized hybrid graphene for high-performance antimicrobial activity. 2013 , 9, 7996-8003		44
306	Carbon monoxide-induced reduction and healing of graphene oxide. 2013, 31, 040601		13
305	Enhanced adhesion of preosteoblasts inside 3D PCL scaffolds by polydopamine coating and mineralization. 2013 , 13, 1389-95		56
304	Solubilization of Chemically Reduced Graphene Oxide Using Coffee Catechol. 2013 , 42, 189-190		8
303	Controlling mechanical properties of bio-inspired hydrogels by modulating nano-scale, inter-polymeric junctions. 2014 , 5, 887-94		19
302	Catechol-Based Biomimetic Functional Materials and their Applications. 2014 , 277-308		
301	Boron nitride nanosheets decorated with silver nanoparticles through mussel-inspired chemistry of dopamine. 2014 , 25, 445603		35
300	Patterned polymer surfaces with wetting contrast prepared by polydopamine modification. 2014 , 131, n/a-n/a		6
299	One-pot surface functionalization and reduction of graphene oxide with long-chain molecules: Preparation and its enhancement on the thermal and mechanical properties of polyurea. <i>Chemical Engineering Journal</i> , 2014 , 236, 233-241	14.7	62
298	Effect of interfacial interaction between graphene oxide derivatives and poly(vinyl chloride) upon the mechanical properties of their nanocomposites. 2014 , 49, 2943-2951		39
297	Bio-inspired surface-functionalization of graphene oxide for the adsorption of organic dyes and heavy metal ions with a superhigh capacity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5034-5040	13	207
296	Direct growth of Pt@Ag nanochains on tailorable graphene oxide with a green, in situ, template-free method and its biosensing application. 2014 , 139, 2560-4		1
295	Graphene dispersions. 2014 , 19, 163-174		107
294	Covalently functionalized graphene sheets with biocompatible natural amino acids. <i>Applied Surface Science</i> , 2014 , 307, 533-542	6.7	132
293	Polydopamine-modified graphene oxide nanocomposite membrane for proton exchange membrane fuel cell under anhydrous conditions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9548	13	228

292	Transition-metal-ion-mediated polymerization of dopamine: mussel-inspired approach for the facile synthesis of robust transition-metal nanoparticle-graphene hybrids. 2014 , 20, 7776-83		80
291	Reinforcing epoxy resin through covalent integration of functionalized graphene nanosheets. 2014 , 25, 418-423		33
290	Physicochemical perspective on "polydopamine" and "poly(catecholamine)" films for their applications in biomaterial coatings. 2014 , 9, 030801		31
289	Interfacial crystallization enhanced interfacial interaction of Poly (butylene succinate)/ramie fiber biocomposites using dopamine as a modifier. 2014 , 91, 22-29		73
288	Tuning the low critical solution temperature of polymer brushes grafted on single-walled carbon nanotubes and temperature dependent loading and release properties. 2014 , 52, 1807-1814		12
287	Reaction mechanisms of graphene oxide chemical reduction by sulfur-containing compounds. <i>Carbon</i> , 2014 , 67, 146-155	10.4	25
286	In situ green synthesis of Au nanoparticles onto polydopamine-functionalized graphene for catalytic reduction of nitrophenol. 2014 , 4, 64816-64824		79
285	Tuning the grade of graphene: Gamma ray irradiation of free-standing graphene oxide films in gaseous phase. <i>Applied Surface Science</i> , 2014 , 322, 126-135	6.7	37
284	Adhesive polydopamine coated avermectin microcapsules for prolonging foliar pesticide retention. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 19552-8	9.5	114
283	Mussel-inspired nitrogen-doped graphene nanosheet supported manganese oxide nanowires as highly efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6167	13	39
282	Facile fabrication of a C60-polydopamine-graphene nanohybrid for single light induced photothermal and photodynamic therapy. 2014 , 50, 10815-8		54
281	Facile preparation of graphene/Fe3O4/TiO2 multifunctional composite for highly selective and sensitive enrichment of phosphopeptides. 2014 , 4, 18132-18135		26
280	Fluoro-polymer functionalized graphene for flexible ferroelectric polymer-based high-k nanocomposites with suppressed dielectric loss and low percolation threshold. <i>Nanoscale</i> , 2014 , 6, 1474	47:-53	121
279	Aqueous graphene dispersions-optical properties and stimuli-responsive phase transfer. 2014 , 8, 11191	-205	56
278	Graphene-polydopamine-C nanohybrid: an efficient protective agent for NO-induced cytotoxicity in rat pheochromocytoma cells. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 8587-8597	7.3	23
277	Tuning heterogeneous poly(dopamine) structures and mechanics: in silico covalent cross-linking and thin film nanoindentation. 2014 , 10, 457-64		51
276	Electrically conductive rubbery epoxy/diamine-functionalized graphene nanocomposites with improved mechanical properties. 2014 , 67, 564-570		65
275	Near-Infrared Light-Driven, Highly Efficient Bilayer Actuators Based on Polydopamine-Modified Reduced Graphene Oxide. <i>Advanced Functional Materials</i> , 2014 , 24, 5412-5419	15.6	169

274	Trends in green reduction of graphene oxides, issues and challenges: A review. 2014 , 59, 323-328		89
273	Facile Fabrication of Reactive Plasmonic Substrates for Fluorescence Enhancement via Mussel-Inspired Chemistry. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10754-10763	3.8	19
272	Graphene in the aquatic environment: adsorption, dispersion, toxicity and transformation. 2014 , 48, 999	95-100)09 66
271	Polydopamine particles for next-generation multifunctional biocomposites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7578-7587	13	100
270	One-step synthesis of mesoporous silicagraphene composites by simultaneous hydrothermal coupling and reduction of graphene oxide. 2014 , 37, 589-595		14
269	Poly(vinyl alcohol) reinforced and toughened with poly(dopamine)-treated graphene oxide, and its use for humidity sensing. 2014 , 8, 6739-47		166
268	Preparation and application of a novel electrochemical sensing material based on surface chemistry of polyhydroquinone. 2014 , 40, 9-15		6
267	A sensitive electrochemical DNA biosensor based on silver nanoparticles-polydopamine@graphene composite. <i>Electrochimica Acta</i> , 2014 , 118, 130-137	6.7	78
266	Novel graphene-based nanostructures: physicochemical properties and applications. 2014 , 83, 251-279		34
265	Polydopamine and its derivative materials: synthesis and promising applications in energy, environmental, and biomedical fields. 2014 , 114, 5057-115		3034
264	Sonication assisted preparation of graphene oxide/graphitic-CNIhanosheet hybrid with reinforced photocurrent for photocatalyst applications. 2014 , 43, 6295-9		161
263	Covalent immobilization of graphene onto stainless steel wire for jacket-free stir bar sorptive extraction. 2014 , 1351, 12-12		43
262	Formulation of Silver Nanowire Polyaniline Hybrid Transparent Electrodes by Using Catechol-enriched Polyaniline. 2014 , 43, 1453-1455		5
261	Photoresponsive Modulation of Mass Transfer through Spiropyran-grafted Anodized Aluminum Oxide Membrane. 2014 , 43, 1540-1541		2
260	Formulation of Silver Nanowire R educed Graphene Oxide Hybrid Transparent Electrodes by Using Catechol-functionalized Poly(vinylpyrrolidone). 2014 , 43, 723-725		6
259	Superior Photocatalytic Activity of Titanium Dioxide Nanoparticles Linked on Single-walled Carbon Nanotubes through Mussel-inspired Chemistry. 2014 , 43, 1806-1808		5
258	Mussel Adhesives. 2015 , 49-84		2
257	Photocatalytic Activity of Titanium Dioxide Nanoparticles Linked on Chemically Reduced Graphene Oxide through Mussel-inspired Chemistry. 2015 , 44, 1068-1070		4

(2015-2015)

256	Hybridization of Polyaniline on Sulfonated Graphene for an Electrochemical Supercapacitor. 2015 , 44, 217-219		1
255	Surface Functionalization of Graphene. 2015 , 25-65		8
254	Mussel-Inspired Immobilization of Catalysts for Microchemical Applications. 2015 , 2, 1500174		9
253	Mussel Byssus-Like Reversible Metal-Chelated Supramolecular Complex Used for Dynamic Cellular Surface Engineering and Imaging. <i>Advanced Functional Materials</i> , 2015 , 25, 3775-3784	15.6	59
252	Environmentally friendly synthesis of p-doped reduced graphene oxide with high dispersion stability by using red table wine. 2015 , 10, 1192-7		5
251	Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by poly(dopamine) and poly(norepinephrine). 2015 , 5, 42461-42467		19
250	Energy dissipation and recovery in a simple model with reversible cross-links. 2015 , 91, 032603		11
249	Fabricating bio-inspired micro/nano-particles by polydopamine coating and surface interactions with blood platelets. <i>Applied Surface Science</i> , 2015 , 351, 236-242	6.7	10
248	Polydopamine coating layer on graphene for suppressing loss tangent and enhancing dielectric constant of poly(vinylidene fluoride)/graphene composites. 2015 , 73, 85-92		69
247	A polydopamine layer as the nucleation center of MOF deposition on "inert" polymer surfaces to fabricate hierarchically structured porous films. 2015 , 51, 2706-9		54
246	Cu(110) Surface in Hydrochloric Acid Solution: Potential Dependent Chloride Adsorption and Surface Restructuring. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1782-1790	3.8	22
245	Structural and electronic modification of MoSIhanosheets using S-doped carbon for efficient electrocatalysis of the hydrogen evolution reaction. 2015 , 51, 5052-5		50
244	Polydopamine-assisted synthesis of raspberry-like nanocomposite particles for superhydrophobic and superoleophilic surfaces. 2015 , 470, 80-91		50
243	Robust, self-healing hydrogels synthesised from catechol rich polymers. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 899-910	7.3	81
242	Surface modification of carbon nanotubes by combination of mussel inspired chemistry and SET-LRP. 2015 , 6, 1786-1792		79
241	Bioinspired modification of h-BN for high thermal conductive composite films with aligned structure. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5701-8	9.5	294
240	Polydopamine-graphene oxide derived mesoporous carbon nanosheets for enhanced oxygen reduction. <i>Nanoscale</i> , 2015 , 7, 12598-605	7.7	96
239	PEGylation of carbon nanotubes via mussel inspired chemistry: Preparation, characterization and biocompatibility evaluation. <i>Applied Surface Science</i> , 2015 , 351, 425-432	6.7	65

238	Multifunctional Electrochemical Platforms Based on the Michael Addition/Schiff Base Reaction of Polydopamine Modified Reduced Graphene Oxide: Construction and Application. <i>ACS Applied Materials & Company: Interfaces</i> , 2015 , 7, 17935-46	9.5	123
237	Mussel inspired functionalization of carbon nanotubes for heavy metal ion removal. 2015 , 5, 68430-684	38	55
236	A norepinephrine coated magnetic molecularly imprinted polymer for simultaneous multiple chiral recognition. 2015 , 1409, 268-76		48
235	Bioinspired preparation of thermo-responsive graphene oxide nanocomposites in an aqueous solution. 2015 , 6, 5876-5883		58
234	Surface modification of carbon nanotubes via combination of mussel inspired chemistry and chain transfer free radical polymerization. <i>Applied Surface Science</i> , 2015 , 346, 335-341	6.7	55
233	Toward the development of versatile functionalized carbon nanotubes. 2015 , 5, 38316-38323		29
232	Mussel inspired preparation of highly dispersible and biocompatible carbon nanotubes. 2015 , 5, 25329-	25336	33
231	Surface engineering of polymer membranes via mussel-inspired chemistry. <i>Journal of Membrane Science</i> , 2015 , 483, 42-59	9.6	301
230	Marrying mussel inspired chemistry with SET-LRP: A novel strategy for surface functionalization of carbon nanotubes. 2015 , 53, 1872-1879		38
229	A bioinspired strategy for surface modification of silica nanoparticles. <i>Applied Surface Science</i> , 2015 , 357, 1996-2003	6.7	48
228	Carbon nanotube based polymer nanocomposites: biomimic preparation and organic dye adsorption applications. 2015 , 5, 82503-82512		52
227	Two-step process for programmable removal of oxygen functionalities of graphene oxide: functional, structural and electrical characteristics. 2015 , 5, 95657-95665		90
226	In Vitro and In Vivo Tumor Targeted Photothermal Cancer Therapy Using Functionalized Graphene Nanoparticles. 2015 , 16, 3519-29		59
225	A structural study on ethylenediamine- and poly(amidoamine)-functionalized graphene oxide: simultaneous reduction, functionalization, and formation of 3D structure. 2015 , 5, 71835-71843		94
224	Aggregation and Stability of Reduced Graphene Oxide: Complex Roles of Divalent Cations, pH, and Natural Organic Matter. 2015 , 49, 10886-93		182
223	Ultralight free-standing reduced graphene oxide membranes for oil-in-water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20113-20117	13	87
222	Biomimic preparation of highly dispersible silica nanoparticles based polymer nanocomposites. 2015 , 41, 15075-15082		25
221	Bio-inspired functionalization and redox charge transfer of graphene oxide sponges for pseudocapacitive electrodes. <i>Carbon</i> , 2015 , 83, 71-78	10.4	24

(2016-2015)

220	Functionalized graphene sheets with poly(ionic liquid)s and high adsorption capacity of anionic dyes. <i>Applied Surface Science</i> , 2015 , 326, 276-284	6.7	154
219	Emerging applications of graphene and its derivatives in carbon capture and conversion: Current status and future prospects. 2015 , 41, 1515-1545		45
218	Immobilization of glucose oxidase on polydopamine-functionalized graphene oxide. 2015 , 175, 1007-17		26
217	A facile one-pot method to two kinds of graphene oxide-based hydrogels with broad-spectrum antimicrobial properties. <i>Chemical Engineering Journal</i> , 2015 , 260, 331-337	14.7	36
216	Simultaneous Reduction and Functionalization of Graphene Oxide by 4-Hydrazinobenzenesulfonic Acid for Polymer Nanocomposites. <i>Nanomaterials</i> , 2016 , 6,	5.4	30
215	Underwater Superoleophobic Surfaces Prepared from Polymer Zwitterion/Dopamine Composite Coatings. 2016 , 3, 1500521		82
214	Near-infrared-active and pH-responsive fluorescent polymer-integrated hybrid graphene oxide nanoparticles for the detection and treatment of cancer. 2016 , 133,		14
213	From Solution to Biointerface: Graphene Self-Assemblies of Varying Lateral Sizes and Surface Properties for Biofilm Control and Osteodifferentiation. <i>ACS Applied Materials & Discrete Amp; Interfaces</i> , 2016 , 8, 17151-65	9.5	62
212	Fabrication of a novel bio-inspired collagenpolydopamine hydrogel and insights into the formation mechanism for biomedical applications. 2016 , 6, 66180-66190		20
211	Review of Graphene as a Solid State Diffusion Barrier. 2016 , 12, 120-34		28
210	Novel photodriven composite phase change materials with bioinspired modification of BN for solar-thermal energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9625-9634	13	126
209	Preparation of silica nanoparticles based multifunctional therapeutic systems via one-step mussel inspired modification. <i>Chemical Engineering Journal</i> , 2016 , 296, 268-276	14.7	22
208	Enhanced proton conductivity of Nafion nanohybrid membrane incorporated with phosphonic acid functionalized graphene oxide at elevated temperature and low humidity. <i>Journal of Membrane Science</i> , 2016 , 518, 243-253	9.6	79
207	Chemistry of polydopamine analogues. 2016 , 65, 1288-1299		62
206	Recent developments in polydopamine: an emerging soft matter for surface modification and biomedical applications. <i>Nanoscale</i> , 2016 , 8, 16819-16840	7.7	421
205	Graphene Composites. 2016 , 63-111		1
204	Polydopamine-Functionalized Graphene Oxide Loaded with Gold Nanostars and Doxorubicin for Combined Photothermal and Chemotherapy of Metastatic Breast Cancer. 2016 , 5, 2227-36		47
203	Characterization of Biological Secretions Binding to Graphene Oxide in Water and the Specific Toxicological Mechanisms. 2016 , 50, 8530-7		26

202	Cotton modified with silver-nanowires/polydopamine for a wearable thermal management device. 2016 , 6, 67771-67777		30
201	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. 2016 , 2, e1501122		884
200	A remote-controlled generation of gold@polydopamine (core@shell) nanoparticles via physical-chemical stimuli of polydopamine/gold composites. <i>Scientific Reports</i> , 2016 , 6, 22650	4.9	24
199	One-step preparation and application of mussel-inspired poly(norepinephrine)-coated polydimethylsiloxane microchip for separation of chiral compounds. <i>Electrophoresis</i> , 2016 , 37, 1676-84	3.6	16
198	Mussel-inspired PEGylated carbon nanotubes: biocompatibility evaluation and drug delivery applications. 2016 , 5, 1371-1379		19
197	Polymer-Graphene Nanocomposite Materials for Electrochemical Biosensing. 2016 , 16, 944-57		19
196	Effect of H2O and reduced graphene oxide on the structure and rheology of self-healing, stimuli responsive catecholic gels. 2016 , 55, 163-176		19
195	A double signal electrochemical human immunoglobulin G immunosensor based on gold nanoparticles-polydopamine functionalized reduced graphene oxide as a sensor platform and AgNPs/carbon nanocomposite as signal probe and catalytic substrate. 2016 , 77, 1078-85		77
194	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. 2016 , 19, 373-381		499
193	A biomimetic approach to improving tribological properties of hybrid PTFE/Nomex fabric/phenolic composites. <i>European Polymer Journal</i> , 2016 , 78, 163-172	5.2	19
192	Mussel inspired preparation of polymer grafted graphene as a bridge between covalent and noncovalent methods. <i>Chemical Engineering Journal</i> , 2016 , 293, 171-181	14.7	22
191	Organosilane sulfonated graphene oxide in the Biginelli and Biginelli-like reactions. 2016 , 40, 512-520		38
190	Engineered Carbon-Nanomaterial-Based Electrochemical Sensors for Biomolecules. 2016 , 10, 46-80		337
189	Room temperature formaldehyde sensor with enhanced performance based on reduced graphene oxide/titanium dioxide. 2016 , 223, 149-156		110
188	Improving interfacial interaction of l-phenylalanine-functionalized graphene nanofiller and poly(vinyl alcohol) nanocomposites for obtaining significant membrane properties: Morphology, thermal, and mechanical studies. 2016 , 37, 1924-1935		29
187	In situ sonochemical reduction and direct functionalization of graphene oxide: A robust approach with thermal and biomedical applications. 2017 , 34, 67-77		41
186	Superior Performance of Artificial Nacre Based on Graphene Oxide Nanosheets. <i>ACS Applied Materials & District Action Materials & District &</i>	9.5	59
185	Mussel-Inspired Multifunctional Hydrogel Coating for Prevention of Infections and Enhanced Osteogenesis. <i>ACS Applied Materials & Acs Applied & </i>	9.5	132

(2017-2017)

184	Performance of NIR-Mediated Antibacterial Continuous Flow Microreactors Prepared by Mussel-Inspired Immobilization of CsWO Photothermal Agents. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 3192-3200	9.5	32
183	Polydopamine decoration on 3D graphene foam and its electromagnetic interference shielding properties. <i>Journal of Colloid and Interface Science</i> , 2017 , 493, 327-333	9.3	67
182	Catecholamine-functionalized graphene as a biomimetic redox shuttle for solar water oxidation. 2017 , 198, 135-145		3
181	The Synergy of Graphene Oxide and Polydopamine Assisted Immobilization of Lysozyme to Improve Antibacterial Properties. 2017 , 2, 2174-2182		14
180	Functionalized Graphene Oxide with Chitosan for Protein Nanocarriers to Protect against Enzymatic Cleavage and Retain Collagenase Activity. <i>Scientific Reports</i> , 2017 , 7, 42258	4.9	80
179	Simultaneous Reduction and Functionalization of Graphene Oxide via Ritter Reaction. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 14265-14272	9.5	27
178	Mussel-inspired V-shaped copolymer coating for intelligent oil/water separation. <i>Chemical Engineering Journal</i> , 2017 , 322, 693-701	14.7	55
177	Synthesis of FeOOH/Fe3O4 hybrid photocatalyst using catechol-quaternized poly(N-vinyl pyrrolidone) as a double-sided molecular tape. 2017 , 52, 8493-8501		7
176	Polydopamine induced in-situ growth of Au nanoparticles on reduced graphene oxide as an efficient biosensing platform for ultrasensitive detection of bisphenol A. <i>Electrochimica Acta</i> , 2017 , 242, 56-65	6.7	36
175	Mussel-inspired fabrication of functional materials and their environmental applications: Progress and prospects. 2017 , 7, 222-238		248
174	Biotransformation of graphene oxide nanosheets in blood plasma affects their interactions with cells. <i>Environmental Science: Nano</i> , 2017 , 4, 1569-1578	7.1	29
173	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. 2017 , 11, 7293-7300		271
172	Mechanical Properties of Poly(dopamine)-Coated Graphene Oxide and Poly(vinyl alcohol) Composite Fibers Coated with Reduced Graphene Oxide and Their Use for Piezoresistive Sensing. 2017 , 34, 1600382		8
171	Photo-switchable spiropyran immobilized polystyrene beads using catechol chemistry. 2017 , 49, 759-76	55	7
170	Mesoporous Silica Coated Polydopamine Functionalized Reduced Graphene Oxide for Synergistic Targeted Chemo-Photothermal Therapy. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 1226-1236	9.5	133
169	Highly Efficient Visible Blue-Emitting Black Phosphorus Quantum Dot: Mussel-Inspired Surface Functionalization for Bioapplications. <i>ACS Omega</i> , 2017 , 2, 7096-7105	3.9	27
168	Mussel-inspired electroactive chitosan/graphene oxide composite hydrogel with rapid self-healing and recovery behavior for tissue engineering. <i>Carbon</i> , 2017 , 125, 557-570	10.4	184
167	Polydopamine-functionalized nanographene oxide: a versatile nanocarrier for chemotherapy and photothermal therapy. 2017 , 28, 295102		29

166	Polydopamine and eumelanin molecular structures investigated with calculations. 2017 , 8, 1631-1641		111
165	Facile and highly efficient fabrication of graphene oxide-based polymer nanocomposites through mussel-inspired chemistry and their environmental pollutant removal application. 2017 , 52, 504-518		36
164	One-Step Reduction and Surface Modification of Graphene Oxide by 3-Hydroxy-2-Naphthoic Acid Hydrazide and Its Polypropylene Nanocomposites. <i>Nanomaterials</i> , 2017 , 7,	5.4	7
163	Composite Materials and Films Based on Melanins, Polydopamine, and Other Catecholamine-Based Materials. 2017 , 2,		10
162	Influence of Carbon Fillers on Thermal Properties and Flammability of Polymeric Nanocomposites. 2017 , 32, 270-289		4
161	Evolution of structure and functional groups in the functionalization of graphene oxide with L-cysteine. 2018 , 1163, 449-454		13
160	Polyelectrolyte Brush-Grafted Polydopamine-Based Catalysts with Enhanced Catalytic Activity and Stability. <i>ACS Applied Materials & Acs Applied & Acs Appl</i>	9.5	9
159	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. 2018 , 162, 109-122		40
158	Recent advances in the preparation and application of mussel-inspired polydopamine-coated capillary tubes in microextraction and miniaturized chromatography systems. 2018 , 1033, 35-48		18
157	Two-dimensional material-based bionano platforms to control mesenchymal stem cell differentiation. 2018 , 22, 10		20
156	Recent advances in the synthesis of catechol-derived (bio)polymers for applications in energy storage and environment. <i>Progress in Polymer Science</i> , 2018 , 82, 34-91	29.6	113
155	Sunlight-Induced RAFT Synthesis of Multifaceted Glycopolymers with Surface Anchoring, In Situ AgNP Formation, and Antibacterial Properties. 2018 , 1, 2219-2226		12
154	Biocompatible, self-healing, highly stretchable polyacrylic acid/reduced graphene oxide nanocomposite hydrogel sensors via mussel-inspired chemistry. <i>Carbon</i> , 2018 , 136, 63-72	10.4	196
153	Polydopamine films and particles with catalytic activity. 2018 , 301, 196-203		47
152	Polydopamine coated graphene oxide for anticorrosive reinforcement of water-borne epoxy coating. <i>Chemical Engineering Journal</i> , 2018 , 335, 255-266	14.7	264
151	Separation of chiral compounds using magnetic molecularly imprinted polymer nanoparticles as stationary phase by microchip capillary electrochromatography. <i>Electrophoresis</i> , 2018 , 39, 356-362	3.6	28
150	Mussel-inspired dopamine-mediated graphene hybrid with silver nanoparticles for high performance electrochemical energy storage electrodes. 2018 , 134, 141-150		11
149	Polydopamine Modified TiO Nanotube Arrays for Long-Term Controlled Elution of Bivalirudin and Improved Hemocompatibility. <i>ACS Applied Materials & Discrete Section</i> , 10, 7649-7660	9.5	36

148	Graphene oxide based photocathode for split photoelectrochemical bioanalysis. 2018 , 86, 85-89		4
147	A linear and large-range pressure sensor based on a graphene/silver nanowires nanobiocomposites network and a hierarchical structural sponge. 2018 , 155, 108-116		91
146	Polydopamine-Based Multifunctional (Nano)materials for Cancer Therapy. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 7541-7561	9.5	146
145	Materials and design of nanostructured broadband light absorbers for advanced light-to-heat conversion. <i>Nanoscale</i> , 2018 , 10, 21555-21574	7.7	65
144	Exploiting Synergetic Effects of Graphene Oxide and a Silver-Based Metal-Organic Framework To Enhance Antifouling and Anti-Biofouling Properties of Thin-Film Nanocomposite Membranes. <i>ACS Applied Materials & Discourge (Materials & Discourge)</i> 2018, 10, 42967-42978	9.5	101
143	Cellular Delivery of siRNA Using Poly(2-dimethylaminoethyl methacrylate)- Functionalized Graphene Oxide Nano-Wrap. 2018 , 26, 1115-1122		2
142	Preparation of Hollow Nitrogen Doped Carbon via Stresses Induced Orientation Contraction. 2018 , 14, e1804183		47
141	Material-Independent Surface Modification Inspired by Principle of Mussel Adhesion. 2018 , 417-436		
140	Excellent Nanofiber Adhesion for Hybrid Polymer Materials with High Toughness Based on Matrix Interdiffusion During Chemical Conversion. <i>Advanced Functional Materials</i> , 2018 , 29, 1807434	15.6	10
139	Highly efficient uranium adsorption by salicylaldoxime/polydopamine graphene oxide nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24676-24685	13	220
139			220
	nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24676-24685 Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene		
138	nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24676-24685 Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene fluoride-co-hexafluoropropylene) Membranes for Use in Membrane Distillation. 2018 , 57, 14535-14543		27
138	nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24676-24685 Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene fluoride-co-hexafluoropropylene) Membranes for Use in Membrane Distillation. 2018 , 57, 14535-14543 Enhanced Gas-Sensing Performance of GO/TiOlComposite by Photocatalysis. 2018 , 18, Polydopamine surface modification with UV-shielding effect using KMnO4 as an efficient oxidizing		27 19
138 137 136	nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24676-24685 Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene fluoride-co-hexafluoropropylene) Membranes for Use in Membrane Distillation. 2018 , 57, 14535-14543 Enhanced Gas-Sensing Performance of GO/TiOlComposite by Photocatalysis. 2018 , 18, Polydopamine surface modification with UV-shielding effect using KMnO4 as an efficient oxidizing agent. 2018 , 559, 68-73 Fabrication of micron-sized BSA-imprinted polymers with outstanding adsorption capacity based on poly(glycidyl methacrylate)/polystyrene (PGMA/PS) anisotropic microspheres. <i>Journal of Materials</i>		27 19 21
138 137 136	nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24676-24685 Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene fluoride-co-hexafluoropropylene) Membranes for Use in Membrane Distillation. 2018 , 57, 14535-14543 Enhanced Gas-Sensing Performance of GO/TiOlComposite by Photocatalysis. 2018 , 18, Polydopamine surface modification with UV-shielding effect using KMnO4 as an efficient oxidizing agent. 2018 , 559, 68-73 Fabrication of micron-sized BSA-imprinted polymers with outstanding adsorption capacity based on poly(glycidyl methacrylate)/polystyrene (PGMA/PS) anisotropic microspheres. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5860-5866 Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. <i>Journal of</i>	7-3	27 19 21 15
138 137 136 135	Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene fluoride-co-hexafluoropropylene) Membranes for Use in Membrane Distillation. 2018, 57, 14535-14543 Enhanced Gas-Sensing Performance of GO/TiOlComposite by Photocatalysis. 2018, 18, Polydopamine surface modification with UV-shielding effect using KMnO4 as an efficient oxidizing agent. 2018, 559, 68-73 Fabrication of micron-sized BSA-imprinted polymers with outstanding adsorption capacity based on poly(glycidyl methacrylate)/polystyrene (PGMA/PS) anisotropic microspheres. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5860-5866 Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12876-12931 One-Step Assembly of a Biomimetic Biopolymer Coating for Particle Surface Engineering. <i>Advanced</i>	7-3	27 19 21 15 159

130	Synthesis of graphene oxide-quaternary ammonium nanocomposite with synergistic antibacterial activity to promote infected wound healing. 2018 , 6, 16	30
129	Preparation and Application of Biomimetic Materials Inspired by Mussel Adhesive Proteins. 2018 , 103-118	2
128	Core Cross-linked Micelles Made of Glycopolymers Bearing Dopamine and Cholic Acid Pendants. 2018 , 15, 2348-2354	7
127	Reduced graphene oxide/metal oxide nanoparticles composite membranes for highly efficient molecular separation. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1481-1486	35
126	Mussel-inspired strategy towards functionalized reduced graphene oxide-crosslinked polysulfone-based anion exchange membranes with enhanced properties. 2018 , 43, 17461-17474	19
125	Highly thermal conductive and electrically insulating polymer composites based on polydopamine-coated copper nanowire. 2018 , 164, 153-159	54
124	Robust and Recyclable Two-Dimensional Nanobiocatalysts for Biphasic Reactions in Pickering Emulsions. 2018 , 57, 8708-8717	11
123	Effects of silica nanoparticles on tribology performance of poly(Epoxy Resin-Bismaleimide)-based nanocomposites. 2019 , 59, 274-283	7
122	Mussel-Inspired Graphene Film with Enhanced Durability as a Macroscale Solid Lubricant. ACS Applied Materials & Durability as a Macroscale Solid Lubricant. ACS 9.5	11
121	Graphene-based advanced nanoplatforms and biocomposites from environmentally friendly and biomimetic approaches. 2019 , 21, 4887-4918	27
120	In situ chemical redox and functionalization of graphene oxide: toward new cathodic photoelectrochemical bioanalysis. 2019 , 55, 10072-10075	2
119	Grafted biopolymers II: synthesis and characterization. 2019 , 43-63	O
118	Modifying Reduced Graphene Oxide by Conducting Polymer Through a Hydrothermal Polymerization Method and its Application as Energy Storage Electrodes. 2019 , 14, 226	37
117	CTAB-assisted fabrication of well-shaped PDA-based colloidosomes. 2019 , 297, 1301-1311	1
116	Waterborne Epoxy Resin/Polydopamine Modified Zirconium Phosphate Nanocomposite for Anticorrosive Coating. 2019 , 58, 16571-16580	24
115	Polydopamine Modified Graphene Oxide-TiO2 Nanofiller for Reinforcing Physical Properties and Anticorrosion Performance of Waterborne Epoxy Coatings. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3760 ^{2.6}	9
114	Polydopamine functionalized graphene oxide nanocomposites reinforced the corrosion protection and adhesion properties of waterborne polyurethane coatings. <i>European Polymer Journal</i> , 2019 , 120, 109249	52
113	Sulfonated poly (ether sulfone) composite membranes customized with polydopamine coated molybdenum disulfide nanosheets for renewable energy devices. 2019 , 175, 255-264	9

112	A glucose biosensor based on the immobilization of glucose oxidase and Au nanocomposites with polynorepinephrine 2019 , 9, 16439-16446	17
111	Tunable dispersibility and wettability of graphene oxide through one-pot functionalization and reduction. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 771-780	10
110	Highly conductive functionalized reduced graphene oxide. 2019 , 16, 152-156	9
109	A comprehensive review on graphene-based anti-corrosive coatings. <i>Chemical Engineering Journal</i> , 2019 , 373, 104-121	147
108	Nitrogen and sulfur dual-doped graphene as an efficient metal-free electrocatalyst for the oxygen reduction reaction in microbial fuel cells. 2019 , 43, 9389-9395	17
107	Simultaneous reduction and surface functionalization of graphene oxide by cystamine dihydrochloride for rubber composites. 2019 , 122, 18-26	11
106	Electrochemically Exfoliated Functionalized Black Phosphorene and Its Polyurethane Acrylate Nanocomposites: Synthesis and Applications. <i>ACS Applied Materials & Description (Control of September 2019)</i> , 11, 13652-13664	42
105	Superhydrophobic and superoleophilic graphene aerogel for adsorption of oil pollutants from water 2019 , 9, 8569-8574	31
104	Material-Independent Surface Chemistry beyond Polydopamine Coating. 2019 , 52, 704-713	168
103	In situ immobilization of sulfated-Ecyclodextrin as stationary phase for capillary electrochromatography enantioseparation. 2019 , 200, 1-8	18
102	Functionalized-Graphene and Graphene Oxide: Fabrication and Application in Catalysis. 2019, 661-727	3
101	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. 2019 , 12, 277-296	131
100	Glassy carbon electrode modified by new Copper(I) oxide nanocomposite for glucose detection: An electroanalysis study. 2019 , 33, e4834	5
99	Recent progresses in graphene based bio-functional nanostructures for advanced biological and cellular interfaces. <i>Nano Today</i> , 2019 , 26, 57-97	43
98	Poly(norepinephrine)-coated FeOOH nanoparticles as carriers of artemisinin for cancer photothermal-chemical combination therapy 2019 , 9, 9968-9982	13
97	Scalable Production of Nanographene and Doping via Nondestructive Covalent Functionalization. 2019 , 15, e1805430	18
96	Fabrication of dual network self-healing alginate/guar gum hydrogels based on polydopamine-type microcapsules from mesoporous silica nanoparticles. 2019 , 129, 916-926	36
95	Highly Stretchable Conductor by Self-Assembling and Mechanical Sintering of a 2D Liquid Metal on a 3D Polydopamine-Modified Polyurethane Sponge. <i>ACS Applied Materials & Description</i> 48321-48330 9.5	24

94	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. <i>Nanoscale</i> , 2019 , 11, 22804-22812	7.7	59
93	Fabrication of Polydopamine-Modified Carbon Fabric/Polyimide Composites With Enhanced Mechanical and Tribological Properties. 2019 , 40, 1911-1918		12
92	Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. 2019 , 136, 47375		9
91	Robust Conductive Micropatterns on PTFE Achieved via Selective UV-Induced Graft Copolymerization for Flexible Electronic Applications. <i>ACS Applied Materials & Discrete Applied & Discrete Appl</i>	9.5	5
90	Elastomer-Free, Stretchable, and Conformable Silver Nanowire Conductors Enabled by Three-Dimensional Buckled Microstructures. <i>ACS Applied Materials & Discours (Materials & Discours)</i> , 11, 6541-65	4 9 ·5	22
89	Electroactive graphene oxide-incorporated collagen assisting vascularization for cardiac tissue engineering. 2019 , 107, 204-219		55
88	Structure and Chemistry of 2D Materials. 2019 , 55-90		3
87	Facile fabrication of glycosylated and PEGylated carbon nanotubes through the combination of mussel inspired chemistry and surface-initiated ATRP. 2020 , 106, 110157		15
86	Biomimetic Assembly of a Polydopamine Layer on Graphene as an Electron Gate for Fluorescent MicroRNA Detection in Living Cells. 2020 , 21, 801-806		4
85	Natural phenolic compound I ron complexes: sustainable solar absorbers for wood-based solar steam generation devices. 2020 , 10, 1152-1158		15
84	Ru supported on N-doped reduced graphene oxide aerogels with different N-type for alcohol selective oxidation. 2020 , 484, 110737		7
83	Self-healing, sensitive and antifreezing biomass nanocomposite hydrogels based on hydroxypropyl guar gum and application in flexible sensors. 2020 , 155, 1569-1577		33
82	Recent Development of Polyolefin-Based Microporous Separators for Li-Ion Batteries: A Review. 2020 , 20, 570-595		32
81	Application of polydopamine-coated nylon capillary-channeled polymer fibers as a stationary phase for mass spectrometric phosphopeptide analysis. <i>Electrophoresis</i> , 2020 , 41, 215-224	3.6	4
80	Corrosion- and wear-resistant composite film of graphene and mussel adhesive proteins on carbon steel. <i>Corrosion Science</i> , 2020 , 164, 108351	6.8	11
79	Enhanced cycle stability of rechargeable Li-O2 batteries using immobilized redox mediator on air cathode. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 14-19	6.3	4
78	Reduced graphene oxide-GelMA-PCL hybrid nanofibers for peripheral nerve regeneration. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10593-10601	7-3	18
77	Recent progress and development for the fabrication of antibacterial materials through mussel-inspired chemistry. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104383	6.8	4

(2020-2020)

76	Bioinspired Design of Graphene-Based Materials. Advanced Functional Materials, 2020, 30, 2007458	15.6	8
75	Graphene oxide/mussel foot protein composites for high-strength and ultra-tough thin films. <i>Scientific Reports</i> , 2020 , 10, 19082	4.9	3
74	An Integral Recognition and Signaling for Electrochemical Assay of Protein Kinase Activity and Inhibitor by Reduced Graphene Oxide-Polydopamine-Silver Nanoparticle-Ti Nanocomposite. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 603083	5.8	4
73	A novel fluorescent DNA sensor system based on polydopamine modified MgAl-layered double hydroxides. <i>Colloids and Interface Science Communications</i> , 2020 , 37, 100294	5.4	8
72	Styrene-Based Elastomer Composites with Functionalized Graphene Oxide and Silica Nanofiber Fillers: Mechanical and Thermal Conductivity Properties. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
71	Bioinspired MXene-integrated colloidal crystal arrays for multichannel bioinformation coding. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22736-22742	11.5	26
70	Natural Product Inspired Environmentally Friendly Strategy Based on Dopamine Chemistry toward Sustainable Marine Antifouling. <i>ACS Omega</i> , 2020 , 5, 21524-21530	3.9	1
69	Advancement of Platinum (Pt)-Free (Non-Pt Precious Metals) and/or Metal-Free (Non-Precious-Metals) Electrocatalysts in Energy Applications: A Review and Perspectives. <i>Energy & Energy Fuels</i> , 2020 , 34, 6634-6695	4.1	53
68	Growing Poly(norepinephrine) Layer over Individual Nanoparticles To Boost Hybrid Perovskite Photocatalysts. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 27578-27586	9.5	10
67	Custom-made sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes for vanadium redox flow battery applications. <i>Polymer Testing</i> , 2020 , 90, 106685	4.5	5
66	Fabrication of hybrid photodiode systems: BODIPY decorated cyclotriphosphazene covalently grafted graphene oxides. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2920-2931	6.8	9
65	Hybridization of graphene oxide and mesoporous bioactive glass: Micro-space network structure enhance polymer scaffold. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 109, 10382	7 ^{4.1}	2
64	Polynorepinephrine: state-of-the-art and perspective applications in biosensing and molecular recognition. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 5945-5954	4.4	9
63	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. <i>Advanced Materials</i> , 2020 , 32, e1907505	24	88
62	Metal free triad from red phosphorous, reduced graphene oxide and graphitic carbon nitride (red P-rGO-g-C3N4) as robust electro-catalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2020 , 338, 135851	6.7	14
61	Self-alignment of cationic graphene oxide nanosheets for anticorrosive reinforcement of epoxy coatings. <i>Chemical Engineering Journal</i> , 2020 , 389, 124435	14.7	58
60	MetalElectrolyte Interfaces. 2020 , 517-731		2
59	Chemical Grafting-derived N, P Co-doped Hollow Microporous Carbon Spheres for High-Performance Sodium-ion Battery Anodes. <i>Applied Surface Science</i> , 2020 , 518, 146221	6.7	24

58	Polydopamine modified ultrathin hydroxyapatite nanosheets for anti-corrosion reinforcement in polymeric coatings. <i>Corrosion Science</i> , 2021 , 178, 109064	6.8	42
57	An environment friendly free-standing cellulose membrane derived for catalytic reduction of 4-nitrophenol: A sustainable approach. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104596	6.8	11
56	Lithiated nanosheets hybridized solid polymer electrolyte to construct Li+ conduction highways for advanced all-solid-state lithium battery. <i>Journal of Power Sources</i> , 2021 , 484, 229287	8.9	12
55	A Review on Graphene Oxide Two-dimensional Macromolecules: from Single Molecules to Macro-assembly. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 267-308	3.5	16
54	Bio-inspired fabrication of highly permeable and anti-fouling ultrafiltration membranes based on bacterial cellulose for efficient removal of soluble dyes and insoluble oils. <i>Journal of Membrane Science</i> , 2021 , 621, 118982	9.6	13
53	Self-assembled graphene oxide/polyethyleneimine films as high-performance quartz crystal microbalance humidity sensors. <i>Rare Metals</i> , 2021 , 40, 1597-1603	5.5	10
52	Electrochemically Exfoliated Functionalized Black Phosphorene and Its Polyurethane Acrylate Nanocomposites: Synthesis and Applications. <i>Springer Theses</i> , 2021 , 59-83	0.1	
51	Non-covalent assembly of a super-tough, highly stretchable and environmentally adaptable self-healing material inspired by nacre. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20737-20747	13	8
50	Unexpected spontaneous dynamic oxygen migration on carbon nanotubes. <i>Nanoscale</i> , 2021 , 13, 15231-	1,57,37	0
49	Modification of graphene and graphene oxide and their applications in anticorrosive coatings. 2021 , 18, 311-331		3
48	Preparation of graphene oxide membrane-daptomycin/epidermal growth factor dressing and its effect on wound healing. <i>Materials Research Express</i> ,	1.7	0
47	Effect of Amine Molecular Chain Length on the Mechanical and Thermal Properties of Functionalized Graphene Oxide/Polyurea Nanocomposites. <i>Science of Advanced Materials</i> , 2021 , 13, 199	9 -2 08	
46	Multifunctional polydopamine-based nanoparticles: synthesis, physico-chemical properties and applications for bimodal photothermal/photodynamic therapy of cancer. <i>Multifunctional Materials</i> , 2021 , 4, 022001	5.2	4
45	Heparin immobilized graphene oxide in polyetherimide membranes for hemodialysis with enhanced hemocompatibility and removal of uremic toxins. <i>Journal of Membrane Science</i> , 2021 , 623, 119068	9.6	7
44	Bioinspired ultrathin graphene nanosheets sandwiched between epoxy layers for high performance of anticorrosion coatings. <i>Chemical Engineering Journal</i> , 2021 , 410, 128301	14.7	17
43	Functionalization of graphene-based materials: Effective approach for enhancement of tribological performance as lubricant additives. <i>Diamond and Related Materials</i> , 2021 , 115, 108357	3.5	7
42	Surface Functionalization of Graphene Oxide with Polymer Brushes for Improving Thermal Properties of the Polymer Matrix. <i>Advances in Polymer Technology</i> , 2021 , 2021, 1-11	1.9	5
41	Sequential module coordination-driven programmable function switch of metal-molecule nanoframeworks for cancer theranostics. <i>Nano Today</i> , 2021 , 38, 101126	17.9	4

40	Polydopamine enwrapped titanium dioxide-assisted dispersion of graphene to strength fire resistance of intumescent waterborne epoxy coating. <i>Progress in Organic Coatings</i> , 2021 , 157, 106291	4.8	4
39	Conjugating hyaluronic acid with porous biomass to construct anti-adhesive sponges for rapid uranium extraction from seawater. <i>Chemical Engineering Journal</i> , 2021 , 420, 130382	14.7	4
38	The role of graphene and its derivatives in modifying different phases of geopolymer composites: A review. <i>Construction and Building Materials</i> , 2021 , 306, 124774	6.7	6
37	Interfacial assembled mesoporous polydopamine nanoparticles reduced graphene oxide for high performance of waterborne epoxy-based anticorrosive coatings. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1572-1585	9.3	8
36	Simultaneously enhanced heat dissipation and tribological properties of polyphenylene sulfide-based composites via constructing segregated network structure. <i>Journal of Materials Science and Technology</i> , 2022 , 99, 239-250	9.1	4
35	Reduced graphene oxide cross-linked L-cysteine modified glassy carbon electrode for detection of environmental pollutant of hydroquinone. <i>FlatChem</i> , 2021 , 25, 100214	5.1	5
34	Emerging investigator series: 3D printed graphene-biopolymer aerogels for water contaminant removal: a proof of concept. <i>Environmental Science: Nano</i> , 2021 , 8, 399-414	7.1	5
33	Carbon Nanotubes Loaded on Graphene Microfolds as Efficient Bifunctional Electrocatalysts for the Oxygen Reduction and Oxygen Evolution Reactions. <i>ChemCatChem</i> , 2017 , 9, 4520-4528	5.2	7
32	Electrochemical assay of protein kinase activity based on the Fe3O4@PNE-Ti4+ functionalized PDMS microchip. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 877, 114645	4.1	3
31	Surface Modification of Highly Ordered Pyrolytic Graphite (HOPG) by a Mussel-Inspired Poly(norepinephrine) Coating: Characterizations and Cell Adhesion Test. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 960-962	1.2	8
30	Understanding the Adsorption Capacity for CO2 in Reduced Graphene Oxide (rGO) and Modified Ones with Different Heteroatoms in Relation to Surface and Textural Characteristics. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9631	2.6	1
29	Mussel-Inspired Chemistry: A Promising Strategy for Natural Polysaccharides in Biomedical Applications. <i>Progress in Polymer Science</i> , 2021 , 101472	29.6	7
28	Covalent Graphene-Polymer Nanocomposites. 101-149		
27	Introduction to surfaces at metal-electrolyte interfaces. 2018, 791-806		
26	Graphene Functionalization for Polymer Nanocomposites. 1-50		
25	A smart healable anticorrosion coating with enhanced loading of benzotriazole enabled by ultra-highly exfoliated graphene and mussel-inspired chemistry. <i>Carbon</i> , 2022 , 187, 439-450	10.4	1
24	Electrochemically reduced graphene oxide: Preparation, composites, and applications. <i>Carbon</i> , 2022 , 191, 301-332	10.4	4
23	Reduced Graphene Oxide Aerogels with Functionalization-Mediated Disordered Stacking for Sodium-Ion Batteries. <i>Batteries</i> , 2022 , 8, 12	5.7	Ο

22	Portable glucose biosensor based on polynorepinephrine@magnetite nanomaterial integrated with a smartphone analyzer for point-of-care application <i>Bioelectrochemistry</i> , 2022 , 145, 108071	5.6	4
21	A review on the recent advances on improving the properties of epoxy nanocomposites for thermal, mechanical, and tribological applications: challenges and recommendations. 2022 , 61, 176-195	i	5
20	Interfacial Effects on the Dielectric Properties of Elastomer Composites and Nanocomposites. <i>Advances in Dielectrics</i> , 2022 , 225-249	0.6	2
19	Covalent polymer functionalization of graphene/graphene oxide and its application as anticorrosion materials. 2D Materials,	5.9	1
18	Applications of adhesives in textiles: A review. European Polymer Journal, 2022, 167, 111089	5.2	1
17	Table_1.DOCX. 2020 ,		
16	3D Printing of Metallic Structures using Dopamine-integrated Photopolymer. <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	1
15	Reduced polydopamine coated graphene for delivery of Hset1 antisense as A photothermal and gene therapy of breast cancer. <i>Journal of Drug Delivery Science and Technology</i> , 2022 , 73, 103462	4.5	2
14	Recent Advances in Perovskite Catalysts for Efficient Overall Water Splitting. <i>Catalysts</i> , 2022 , 12, 601	4	2
13	Structure and Property of Alkylated Graphene Oxide Depending on the Chain Length: Grand Canonical Monte Carlo-Molecular Dynamics Approach. <i>Journal of Physical Chemistry C</i> ,	3.8	
12	Polydopamine nanospheres-assisted direct PCR for rapid detection of Escherichia coli O157:H7. <i>Analytical Biochemistry</i> , 2022 , 654, 114797	3.1	1
11	Preparation and Characterization of Graphene Oxide/Polyaniline/Polydopamine Nanocomposites towards Long-Term Anticorrosive Performance of Epoxy Coatings. 2022 , 14, 3355		O
10	Recent developments in polynorepinephrine: an innovative material for bioinspired coatings and colloids.		0
9	Well-Distributed Polysilsesquioxane-Modified Carbon Nanotubes for Thermal Conductive Insulating Silicone Rubbers. 2022 , 2022, 1-9		O
8	Dopamine-assisted wet spinning and mechanical reinforcement of graphene oxide fibers.		0
7	Colloidal Behavior and Biodegradation of Engineered Carbon-Based Nanomaterials in Aquatic Environment. 2022 , 12, 4149		O
6	Composite Electrolyte for All-Solid-State Lithium Battery. 2023 , 253-302		0
5	Tribology of graphene-based polymeric systems. 2023 , 215-233		О

CITATION REPORT

Significance of different dopamine species as reducing agents of graphene oxide: Fundamental aspects. 2023, 732, 122285

Mussel-inspired preparation of superhydrophobic mica nanosheets for long-term anticorrosion and self-healing performance of epoxy coatings. 2023, 178, 107456

Robust Underwater Adhesion of Catechol-Functionalized Polymer Triggered by Water Exchange. 2201235

Sustainable Mass Production of Ultrahigh-Aspect-Ratio Hexagonal Boron Nitride Nanosheets for High-Performance Composites. 2023, 11, 4633-4642