

Vincent G Gomes

List of Publications by Citations

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

130
papers

4,679
citations

34
h-index

67
g-index

135
ext. papers

5,171
ext. citations

5
avg, IF

6.22
L-index

#	Paper	IF	Citations
130	Hybrid nanostructures based on titanium dioxide for enhanced photocatalysis. <i>Applied Catalysis A: General</i> , 2015 , 489, 1-16	5.1	601
129	Edge-enriched graphene quantum dots for enhanced photo-luminescence and supercapacitance. <i>Nanoscale</i> , 2014 , 6, 11988-94	7.7	372
128	Hierarchical assembly of graphene/polyaniline nanostructures to synthesize free-standing supercapacitor electrode. <i>Composites Science and Technology</i> , 2014 , 98, 1-8	8.6	314
127	Carbon functionalized TiO ₂ nanofibers for high efficiency photocatalysis. <i>Materials Research Express</i> , 2014 , 1, 015012	1.7	303
126	High-yield aqueous phase exfoliation of graphene for facile nanocomposite synthesis via emulsion polymerization. <i>Journal of Colloid and Interface Science</i> , 2013 , 410, 43-51	9.3	244
125	Engineering carbon quantum dots for photomediated theranostics. <i>Nano Research</i> , 2018 , 11, 1-41	10	183
124	Polymer brush synthesis on surface modified carbon nanotubes via in situ emulsion polymerization. <i>Colloid and Polymer Science</i> , 2016 , 294, 1599-1610	2.4	183
123	Pressure swing adsorption for carbon dioxide sequestration from exhaust gases. <i>Separation and Purification Technology</i> , 2002 , 28, 161-171	8.3	164
122	Grafting carbon nanotubes directly onto carbon fibers for superior mechanical stability: Towards next generation aerospace composites and energy storage applications. <i>Carbon</i> , 2016 , 96, 701-710	10.4	161
121	Carbon quantum dot-based composites for energy storage and electrocatalysis: Mechanism, applications and future prospects. <i>Nano Energy</i> , 2019 , 66, 104093	17.1	95
120	Activated carbon from chickpea husk by chemical activation with K ₂ CO ₃ : preparation and characterization. <i>Microporous and Mesoporous Materials</i> , 2002 , 55, 63-68	5.3	85
119	Doped graphene/Cu nanocomposite: A high sensitivity non-enzymatic glucose sensor for food. <i>Food Chemistry</i> , 2017 , 221, 751-759	8.5	83
118	High efficiency supercapacitor derived from biomass based carbon dots and reduced graphene oxide composite. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 87-96	4.1	75
117	Operation of semi-batch emulsion polymerisation reactors: Modelling, validation and effect of operating conditions. <i>Chemical Engineering Science</i> , 2002 , 57, 2955-2969	4.4	70
116	Preparation and characterization of high-specific-surface-area activated carbons from K ₂ CO ₃ -treated waste polyurethane. <i>Journal of Colloid and Interface Science</i> , 2005 , 281, 437-43	9.3	64
115	Coal derived carbon nanomaterials [Recent advances in synthesis and applications. <i>Applied Materials Today</i> , 2018 , 12, 342-358	6.6	60
114	Coalseam methane recovery by vacuum swing adsorption. <i>Separation and Purification Technology</i> , 2001 , 24, 189-196	8.3	59

113	3D printing of biopolymer nanocomposites for tissue engineering: Nanomaterials, processing and structure-function relation. <i>European Polymer Journal</i> , 2019 , 121, 109340	5.2	57
112	Selenium in sediments, pore waters and benthic infauna of Lake Macquarie, New South Wales, Australia. <i>Marine Environmental Research</i> , 1999 , 47, 491-508	3.3	57
111	Synthesizing polystyrene/carbon nanotube composites by emulsion polymerization with non-covalent and covalent functionalization. <i>Carbon</i> , 2010 , 48, 2925-2933	10.4	55
110	Synthesizing activated carbons from resins by chemical activation with K ₂ CO ₃ . <i>Carbon</i> , 2002 , 40, 2747-2754	10.4	54
109	Nitrogen doped graphene via thermal treatment of composite solid precursors as a high performance supercapacitor. <i>RSC Advances</i> , 2015 , 5, 30679-30686	3.7	53
108	Poly (vinylidene fluoride)/polyaniline/MWCNT nanocomposite ultrafiltration membrane for natural organic matter removal. <i>Separation and Purification Technology</i> , 2018 , 190, 143-155	8.3	53
107	Two-photon excitation triggers combined chemo-photothermal therapy via doped carbon nanohybrid dots for effective breast cancer treatment. <i>Chemical Engineering Journal</i> , 2017 , 330, 651-662	14.7	50
106	High performance hybrid supercapacitor based on doped zucchini-derived carbon dots and graphene. <i>Materials Today Energy</i> , 2019 , 12, 198-207	7	49
105	Collagen derived carbon quantum dots for cell imaging in 3D scaffolds via two-photon spectroscopy. <i>Carbon</i> , 2018 , 131, 238-245	10.4	47
104	Ni- and P-doped carbon from waste biomass: A sustainable multifunctional electrode for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Electrochimica Acta</i> , 2019 , 314, 49-60	6.7	45
103	Excitation-independent carbon dot probes for exogenous and endogenous Fe ³⁺ sensing in living cells: Fluorescence lifetime and sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 145-155	8.5	43
102	Advanced modelling in performance optimization for reactive separation in industrial CO ₂ removal. <i>Separation and Purification Technology</i> , 2008 , 63, 107-115	8.3	39
101	In-situ direct grafting of graphene quantum dots onto carbon fibre by low temperature chemical synthesis for high performance flexible fabric supercapacitor. <i>Materials Today Communications</i> , 2017 , 10, 112-119	2.5	38
100	Selenium contamination, redistribution and remobilisation in sediments of Lake Macquarie, NSW. <i>Organic Geochemistry</i> , 1999 , 30, 1287-1300	3.1	38
99	Hybrid Ni/NiO composite with N-doped activated carbon from waste cauliflower leaves: A sustainable bifunctional electrocatalyst for efficient water splitting. <i>Carbon</i> , 2020 , 157, 515-524	10.4	38
98	Fractal dimensions of activated carbons prepared from lignin by chemical activation. <i>Carbon</i> , 2002 , 40, 630-632	10.4	34
97	On-line multi-variable predictive control of molar mass and particle size distributions in free-radical emulsion copolymerization. <i>Chemical Engineering Science</i> , 2005 , 60, 6596-6606	4.4	34
96	An injection molding study. Part I: Melt and barrel temperature dynamics. <i>Polymer Engineering and Science</i> , 1986 , 26, 854-866	2.3	31

95	Advanced modelling and optimal operating strategy in emulsion copolymerization: Application to styrene/MMA system. <i>Chemical Engineering Science</i> , 2005 , 60, 2795-2813	4.4	30
94	Two-photon active nucleus-targeting carbon dots: enhanced ROS generation and photodynamic therapy for oral cancer. <i>Nanoscale</i> , 2020 , 12, 20598-20603	7.7	29
93	Nonenzymatic multispecies sensor based on Cu-Ni nanoparticle dispersion on doped graphene. <i>Electrochimica Acta</i> , 2017 , 224, 295-305	6.7	28
92	Abalone Hemocyanin Blocks the Entry of Herpes Simplex Virus 1 into Cells: a Potential New Antiviral Strategy. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 1003-12	5.9	25
91	Steam reforming for hydrogen generation with in situ adsorptive separation. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 343-355	6.7	25
90	Inferential conversion monitoring and control in emulsion polymerisation through calorimetric measurements. <i>Chemical Engineering Journal</i> , 2002 , 89, 37-45	14.7	24
89	Conjugated carbon quantum dots: Potent nano-antibiotic for intracellular pathogens. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 378-387	9.3	23
88	Formulation of abalone hemocyanin with high antiviral activity and stability. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 53, 77-85	5.1	23
87	Interactions at scaffold interfaces: Effect of surface chemistry, structural attributes and bioaffinity. <i>Materials Science and Engineering C</i> , 2019 , 105, 110078	8.3	22
86	Metal-based nanomaterials for efficient CO ₂ electroreduction: Recent advances in mechanism, material design and selectivity. <i>Nano Energy</i> , 2020 , 78, 105311	17.1	22
85	Co-Doping of Activated Graphene for Synergistically Enhanced Electrocatalytic Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2015 , 8, 4040-8	8.3	21
84	Iodine doped composite with biomass carbon dots and reduced graphene oxide: a versatile bifunctional electrode for energy storage and oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22650-22662	13	21
83	In-Plane Diffusivity of Moisture in Paper. <i>Drying Technology</i> , 1997 , 15, 265-294	2.6	19
82	Facilitating process control teaching and learning in a virtual laboratory environment. <i>Computer Applications in Engineering Education</i> , 2002 , 10, 79-87	1.6	18
81	Online control of molar mass and particle-size distributions in emulsion polymerization. <i>AIChE Journal</i> , 2006 , 52, 1770-1779	3.6	17
80	Chemical Engineering Curriculum Renewal. <i>Education for Chemical Engineers</i> , 2006 , 1, 116-125	2.4	16
79	Analysis of shear-induced coagulation in an emulsion polymerisation reactor using computational fluid dynamics. <i>Chemical Engineering Science</i> , 2005 , 60, 2005-2015	4.4	16
78	Doping reduced graphene oxide and graphitic carbon nitride hybrid for dual functionality: High performance supercapacitance and hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 856, 113503	4.1	16

77	The Influence of Xanthate-Based Transfer Agents on Styrene Emulsion Polymerization: Mathematical Modeling and Model Validation. <i>Macromolecular Reaction Engineering</i> , 2008 , 2, 58-79	1.5	15
76	Tuning graphene for energy and environmental applications: Oxygen reduction reaction and greenhouse gas mitigation. <i>Journal of Power Sources</i> , 2016 , 328, 472-481	8.9	14
75	Electrical impedance spectroscopy for determining critical micelle concentration of ionic emulsifiers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 441, 195-203	5.1	13
74	Optimal operating strategies for emulsion terpolymerisation. <i>Chemical Engineering Science</i> , 2008 , 63, 4257-4268	4.4	13
73	Aerogel from fruit biowaste produces ultracapacitors with high energy density and stability. <i>Journal of Energy Storage</i> , 2020 , 27, 101152	7.8	13
72	Two-Photon Active Boron Nitride Quantum Dots for Multiplexed Imaging, Intracellular Ferric Ion Biosensing, and pH Tracking in Living Cells.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 975-984	4.1	12
71	RAFT with Bulk and Solution Polymerization: An Approach to Mathematical Modelling and Validation. <i>Polymer-Plastics Technology and Engineering</i> , 2007 , 46, 1103-1115		12
70	Optimal Operating Strategies for Emulsion Polymerization with Chain Transfer Agent. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7526-7537	3.9	11
69	Online polymer molecular weight and conversion monitoring via calorimetric measurements in RAFT emulsion polymerization. <i>Polymer International</i> , 2009 , 58, 1427-1434	3.3	11
68	Selenium associations in estuarine sediments: Redox effects. <i>Water, Air, and Soil Pollution</i> , 1997 , 99, 275-282		11
67	The influence of geometrical characteristics on the photocatalytic activity of TiO ₂ nanotube arrays for degradation of refractory organic pollutants in wastewater. <i>Water Science and Technology</i> , 2015 , 71, 1301-9	2.2	10
66	Online monitoring of emulsion polymerization using electrical impedance spectroscopy. <i>Polymer International</i> , 2015 , 64, 66-75	3.3	10
65	Transitional emulsion polymerisation: Zero-one to pseudo-bulk. <i>Chemical Engineering Science</i> , 2011 , 66, 4251-4260	4.4	10
64	Polymer chain extension in semibatch emulsion polymerization with RAFT-based transfer agent: The influence of reaction conditions on polymerization rate and product properties. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 2356-2372	2.9	9
63	A periodic separating reactor for propene metathesis. <i>Chemical Engineering Science</i> , 2002 , 57, 3839-3850	4.4	9
62	Thermal denaturation and protein stability analysis of <i>Halobacterium salinarum</i> rubra hemocyanin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 2499-2505	4.1	8
61	Miniemulsion Polymerisation Via Reversible Addition Fragmentation Chain Transfer in Pseudo-Bulk Regime. <i>Macromolecular Reaction Engineering</i> , 2011 , 5, 303-315	1.5	8
60	Impingement Drying of Paper. <i>Drying Technology</i> , 1995 , 13, 1331-1344	2.6	8

59	Nickel-Nanoparticles on Doped Graphene: A Highly Active Electrocatalyst for Alcohol and Carbohydrate Electrooxidation for Energy Production. <i>ChemElectroChem</i> , 2018 , 5, 3799-3808	4.3	8
58	Influence of chain transfer agent on structure/property relation of polymer nanocomposites with functionalized carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 353-359	8.4	7
57	Through Air Drying Characteristics of Machine-Formed Semi-Permeable Paper. <i>Drying Technology</i> , 1997 , 15, 341-369	2.6	7
56	Structure and electrochemical properties of polystyrene/CNT nanocomposites. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 3145-3156	2.6	6
55	Nanocomposites of carbon nanotubes and photon upconversion nanoparticles for enhanced optical limiting performance. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7311-7316	7.1	6
54	Miniemulsion polymerisation in pseudo-bulk regime: Mathematical modelling, prediction and optimal strategy of operation. <i>Chemical Engineering Science</i> , 2011 , 66, 220-226	4.4	6
53	Online model-based control of an emulsion terpolymerisation process. <i>Chemical Engineering Science</i> , 2009 , 64, 2076-2087	4.4	6
52	Inferential Conversion and Composition Monitoring via Microcalorimetric Measurements in Emulsion Terpolymerization. <i>Polymer-Plastics Technology and Engineering</i> , 2007 , 47, 13-22		6
51	A framework for modeling particle size effects in emulsion polymerization systems using computational fluid dynamics linked to a detailed population balance model. <i>Computer Aided Chemical Engineering</i> , 2006 , 21, 551-556	0.6	6
50	Conjugated ternary doped carbon dots from vitamin B derivative: Multispectral nanoprobe for targeted melanoma bioimaging and photosensitization. <i>Journal of Luminescence</i> , 2020 , 217, 116811	3.8	6
49	Characterizing colloidal behavior of non-ionic emulsifiers in non-polar solvents using electrical impedance spectroscopy. <i>Colloid and Polymer Science</i> , 2014 , 292, 2695-2705	2.4	5
48	Particle Size Limits of RAFT Living Emulsion Polymerization, with Xanthate-Based Transfer Agent. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 854-861		5
47	Selective Oxidation of Ethylene in an Industrial Packed-Bed Reactor: Modelling, Analysis and Optimization. <i>International Journal of Chemical Reactor Engineering</i> , 2009 , 7,	1.2	5
46	Modelling and Optimisation of an Industrial Ethylene Oxide Reactor. <i>Chemical Product and Process Modeling</i> , 2009 , 4,	1.1	5
45	Online inferential product attribute estimation for optimal operation of emulsion terpolymerisation: Application to styrene/MMA/MA. <i>Chemical Engineering Science</i> , 2007 , 62, 4420-4438	4.4	5
44	Dynamics of propene metathesis: Physisorption and diffusion in heterogeneous catalysis. <i>AIChE Journal</i> , 1996 , 42, 204-213	3.6	5
43	Distribution and characterization of rhogocyte cell types in the mantle tissue of <i>Haliotis laevigata</i> . <i>Marine Biotechnology</i> , 2015 , 17, 168-79	3.4	4
42	Advanced Monitoring and Control of Multi-monomer System in Emulsion Polymerization. <i>Macromolecular Reaction Engineering</i> , 2010 , 4, 672-681	1.5	4

41	Computer-Aided Knowledge-Based Monitoring and Diagnostic System for Emulsion Polymerization. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 1436-1446	5.5	4
40	Engineering an Anti-Graffiti System: A Study in Industrial Product Design. <i>Chemical Engineering and Technology</i> , 2004 , 27, 874-879	2	4
39	Nonlinear Sorption Isotherm of Zeolites by Frequency Response Analysis. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 1475-1479	3.9	4
38	Fixed-Bed adsorber dynamics in binary physisorption-diffusion. <i>Canadian Journal of Chemical Engineering</i> , 1994 , 72, 622-630	2.3	4
37	Operating strategies for acid phase digestion: an industrial case study. <i>Water and Environment Journal</i> , 2016 , 30, 227-234	1.7	4
36	Optimal periodic control of the input into a heterogeneous catalytic reactor. <i>Computers and Chemical Engineering</i> , 1994 , 18, 219-226	4	3
35	Block Copolymers From Living Emulsion Polymerization: Reactor Operating Strategies and Blocking Efficiency. <i>Macromolecular Reaction Engineering</i> , 2012 , 6, 8-16	1.5	2
34	The influence of intermediate radical termination and fragmentation on controlled polymer synthesis via RAFT polymerization. <i>Designed Monomers and Polymers</i> , 2014 , 17, 430-437	3.1	2
33	Online Inferential Measurement of Conversion and Molar Mass in Emulsion Polymerization Controlled by Chain Transfer. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1490-1497	3.9	2
32	Calorimetry for Inferential Conversion Monitoring in Emulsion Copolymerization Reactors. <i>International Journal of Chemical Reactor Engineering</i> , 2006 , 4,	1.2	2
31	Catalyst-Adsorbent Configurations in Enhancing Adsorptive Reactor Performance. <i>International Journal of Chemical Reactor Engineering</i> , 2007 , 5,	1.2	2
30	Enhanced Reactor Performance with Pressure and Vacuum Swing Reaction. <i>International Journal of Chemical Reactor Engineering</i> , 2004 , 2,	1.2	2
29	The role of wave-net models in emulsion polymerisation. <i>Powder Technology</i> , 2002 , 124, 212-218	5.2	2
28	Bioresorbable poly(lactic acid) and organic quantum dot-based nanocomposites: luminescent scaffolds for enhanced osteogenesis and real-time monitoring. <i>Journal of Nanostructure in Chemistry</i> , 1	7.6	2
27	Additive-Free All-Carbon Composite: A Two-Photon Material System for Nanopatterning of Fluorescent Sub-Wavelength Structures. <i>ACS Nano</i> , 2021 , 15, 14193-14206	16.7	2
26	Superhydrophilic 3D-printed scaffolds using conjugated bioresorbable nanocomposites for enhanced bone regeneration. <i>Chemical Engineering Journal</i> , 2022 , 445, 136639	14.7	2
25	Monitoring inverse-phase emulsion polymerization using electrical impedance spectroscopy. <i>Polymer International</i> , 2015 , 64, 787-794	3.3	1
24	Enhanced silica nanocomposite via dual step functionalisation and in-situ polymerisation. <i>International Journal of Nanotechnology</i> , 2013 , 10, 1078	1.5	1

23	Strategies for optimisation and control of molecular weight and particle size distributions in emulsion polymerisation. <i>Computer Aided Chemical Engineering</i> , 2001 , 9, 823-828	0.6	1
22	On-Line Optimal Control of Particle Size Distribution in Emulsion Polymerisation. <i>Computer Aided Chemical Engineering</i> , 2002 , 10, 607-612	0.6	1
21	Periodic and nonperiodic dynamic responses for sorption diffusion and reaction in a Berty reactor. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 102-108	3.9	1
20	Computer Control for the Study of Reactor Dynamics. <i>Instrumentation Science and Technology</i> , 1992 , 20, 183-199	1.4	1
19	Time Proportioning Computer Control of Resistive Heating. <i>Instrumentation Science and Technology</i> , 1987 , 16, 447-466	1.4	1
18	A review on graphene quantum dots, an emerging luminescent carbon nanolights: Healthcare and Environmental applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 278, 115633	3.1	1
17	3D printed nanocomposites for tailored cardiovascular tissue constructs: A minireview. <i>Materialia</i> , 2021 , 19, 101184	3.2	1
16	Franz cells for facile biosensor evaluation: A case of HRP/SWCNT-based hydrogen peroxide detection via amperometric and wireless modes. <i>Biosensors and Bioelectronics</i> , 2021 , 191, 113420	11.8	1
15	Photoluminescence properties of silk-carbon quantum dots composites. <i>Journal of Sol-Gel Science and Technology</i> , 1	2.3	1
14	Additive manufacturing of highly fluorescent organic 3D-metastructures at sub-wavelength resolution. <i>Materials Today Physics</i> , 2021 , 20, 100434	8	0
13	3D-printed polymer nanocomposites with carbon quantum dots for enhanced properties and in situ monitoring of cardiovascular stents. <i>Polymers for Advanced Technologies</i> , 2022 , 33, 980-990	3.2	0
12	Optimizing packing heterogeneity for sorption enhanced metathesis reaction. <i>Adsorption</i> , 2014 , 20, 701-711	2.6	1
11	Block Copolymer Composite Synthesis in a Mechanistic Approach. <i>Polymer-Plastics Technology and Engineering</i> , 2015 , 54, 1679-1693		
10	Adsorptive separation in the enhancement of butene dehydrogenation. <i>Adsorption</i> , 2009 , 15, 365-380	2.6	
9	Selenium Associations in Estuarine Sediments: Redox Effects. <i>Water, Air, and Soil Pollution</i> , 1997 , 99, 275-282	2.6	
8	A model-based framework for advanced optimal operation of polymerization processes: Application to emulsion copolymerization of styrene/MMA. <i>Computer Aided Chemical Engineering</i> , 2004 , 18, 541-546	0.6	
7	An expert system for a semi-batch pilot scale emulsion copolymerisation facility. <i>Computer Aided Chemical Engineering</i> , 2005 , 20, 1495-1500	0.6	
6	Ultrafine Ni-Based Nanomaterials on Hierarchically Porous Carbon from Biomass: An Efficient Bifunctional Electrocatalyst for Water Splitting. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 2861-2861	0	

- 5 Lipoprotein-induced cell growth and hemocyanin biosynthesis in rhogocytes.. *Cell and Tissue Research*, **2022**, 1 4.2
- 4 Resid Conversion **2005**, 2655-2662
- 3 Non-enzymatic multispecies sensing of key wine attributes with nickel nanoparticles on N-doped graphene composite. *Journal of Solid State Electrochemistry*, **2020**, 24, 45-56 2.6
- 2 Marine Glycoproteins: Processing, Characterization and Therapeutic Applications. *Materials Today: Proceedings*, **2016**, 3, 3553-3558 1.4
- 1 Greenhouse gas removal from industrial effluents: The role of inorganic additives. *Canadian Journal of Chemical Engineering*, **2018**, 97, 668 2.3