

# Bin Quan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/515074/bin-quan-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. 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.

58

papers

3,685

citations

30

h-index

59

g-index

59

ext. papers

4,539

ext. citations

7.1

avg, IF

5.91

L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 58 | Lightweight Fe <sub>3</sub> C@Fe/C nanocomposites derived from wasted cornstalks with high-efficiency microwave absorption and ultrathin thickness. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 1226   | 8.7  | 93        |
| 57 | Conductive substrates-based component tailoring via thermal conversion of metal organic framework for enhanced microwave absorption performances. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 608, 1323-1333                                    | 9.3  | 2         |
| 56 | Evolution of dielectric loss-dominated electromagnetic patterns in magnetic absorbers for enhanced microwave absorption performances. <i>Nano Research</i> , <b>2021</b> , 14, 4006   | 10   | 21        |
| 55 | From intrinsic dielectric loss to geometry patterns: Dual-principles strategy for ultrabroad band microwave absorption. <i>Nano Research</i> , <b>2021</b> , 14, 1495-1501  | 10   | 121       |
| 54 | Multiple interface-induced evolution of electromagnetic patterns for efficient microwave absorption at low thickness. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 1810-1818   | 6.8  | 6         |
| 53 | Sc modification induced short-range cation ordering and high microwave dielectric performance in ZnGa <sub>2</sub> O <sub>4</sub> spinel ceramics. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 873, 159758   | 5.7  | 2         |
| 52 | Double dielectric modification of nickel foam-based microwave absorbers with improved impedance matching and absorption performances. <i>Ceramics International</i> , <b>2021</b> , 47, 33490-33490   | 5.1  | 0         |
| 51 | Energetic metal-organic frameworks deflagration enabled ultrafast low-temperature synthesis of ultra-light magnetic nanoparticles decorated high-lossy materials. <i>Carbon</i> , <b>2020</b> , 165, 286-295  | 10.4 | 6         |
| 50 | Environment-Stable CoNi Encapsulation in Stacked Porous Carbon Nanosheets for Enhanced Microwave Absorption. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 102  | 19.5 | 144       |
| 49 | Optimizing electromagnetic wave absorption performance: Design from microscopic bamboo carbon nanotubes to macroscopic patterns. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 809, 151866   | 5.7  | 16        |
| 48 | Integrating carbonyl iron with sponge to enable lightweight and dual-frequency absorption. <i>Nanotechnology</i> , <b>2019</b> , 30, 195703   | 3.4  | 8         |
| 47 | Interfacial polarizations induced by incorporating traditional perovskites into reduced graphene oxide (RGO) for strong microwave response. <i>Dalton Transactions</i> , <b>2019</b> , 48, 2359-2366  | 4.3  | 11        |
| 46 | Extended Effective Frequency of Three-Dimensional Graphene with Sustainable Energy Attenuation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10477-10483   | 8.3  | 20        |
| 45 | Structural dependence of the microwave dielectric properties of Cr <sup>3+</sup> -substituted ZnGa <sub>2</sub> O <sub>4</sub> spinel ceramics: crystal distortion and vibration mode studies. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8261-8268 | 7.1  | 13        |
| 44 | Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901236  | 15.6 | 285       |
| 43 | Compositional tailoring effect on ZnGa <sub>2</sub> O <sub>4</sub> -TiO <sub>2</sub> ceramics for tunable microwave dielectric properties. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 742-749  | 5.7  | 13        |
| 42 | Nano sulfur particles decorated bi-lamella composites for superior electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 543, 138-146  | 9.3  | 13        |

|    |   |      |     |
|----|---|------|-----|
| 41 | Composition and Structure Design of Co <sub>3</sub> O <sub>4</sub> Nanowires Network by Nickel Foam with Effective Electromagnetic Performance in C and X Band. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5543-5552 | 8.3  | 38  |
| 40 | Achieving MOF-derived one-dimensional porous ZnO/C nanofiber with lightweight and enhanced microwave response by an electrospinning method. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 983-991                               | 5.7  | 47  |
| 39 | Zinc oxide/nanoporous carbon hybrid materials derived from metal-organic frameworks with different dielectric and absorption performances. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2521-2527                                  | 6.8  | 11  |
| 38 | Self-Assembly Three-Dimensional Porous Carbon Networks for Efficient Dielectric Attenuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 30228-30233  | 9.5  | 84  |
| 37 | Cobalt nanoparticles embedded nitrogen-doped porous graphitized carbon composites with enhanced microwave absorption performance. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 297-303                                | 8.3  | 32  |
| 36 | Excellent microwave response derived from the construction of dielectric-loss 1D nanostructure. <i>Nanotechnology</i> , <b>2018</b> , 29, 195603  | 3.4  | 13  |
| 35 | 3D Flake-Like Bi <sub>2</sub> Te <sub>3</sub> with Outstanding Lightweight Electromagnetic Wave Absorption Feature. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1700468   | 3.1  | 15  |
| 34 | Structural and Carbonized Design of 1D FeNi/C Nanofibers with Conductive Network to Optimize Electromagnetic Parameters and Absorption Abilities. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7239-7249               | 8.3  | 104 |
| 33 | Achieving better impedance matching by a sulfurization method through converting Ni into NiS/Ni <sub>3</sub> S <sub>4</sub> composites. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1822-1828                                  | 7.1  | 58  |
| 32 | Porous-carbon-based MoC nanocomposites as excellent microwave absorber: a new exploration. <i>Nanoscale</i> , <b>2018</b> , 10, 6945-6953   | 7.7  | 107 |
| 31 | Enhanced electromagnetic wave response of nickel nanoparticles encapsulated in nanoporous carbon. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 961-968   | 5.7  | 17  |
| 30 | Laminated graphene oxide-supported high-efficiency microwave absorber fabricated by an in situ growth approach. <i>Carbon</i> , <b>2018</b> , 129, 310-320  | 10.4 | 113 |
| 29 | Constructing multi-interface MoC/Co@C nanorods for a microwave response based on a double attenuation mechanism. <i>Dalton Transactions</i> , <b>2018</b> , 47, 14767-14773   | 4.3  | 16  |
| 28 | Thermal conversion of wheat-like metal organic frameworks to achieve MgO/carbon composites with tunable morphology and microwave response. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11659-11665                             | 7.1  | 14  |
| 27 | Functionalized Carbon Nanofibers Enabling Stable and Flexible Absorbers with Effective Microwave Response at Low Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41535-41543                                     | 9.5  | 65  |
| 26 | Nano [email protected] Layer on Porous Carbon Nanofibers with Multiple Interfaces for Microwave Absorption Applications. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 5712-5721   | 5.6  | 30  |
| 25 | Metal-organic-frameworks derived porous carbon-wrapped Ni composites with optimized impedance matching as excellent lightweight electromagnetic wave absorber. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 734-744               | 14.7 | 381 |
| 24 | A permittivity regulating strategy to achieve high-performance electromagnetic wave absorbers with compatibility of impedance matching and energy conservation. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1259-1266                 | 3.6  | 109 |

|    |  |     |     |
|----|--|-----|-----|
| 23 | Switching the electromagnetic properties of multicomponent porous carbon materials derived from bimetallic metal-organic frameworks: effect of composition. <i>Dalton Transactions</i> , <b>2017</b> , 46, 3700-3709                       | 4.3 | 49  |
| 22 | A facile self-template strategy for synthesizing 1D porous Ni@C nanorods towards efficient microwave absorption. <i>Nanotechnology</i> , <b>2017</b> , 28, 115704  | 3.4 | 64  |
| 21 | Strong Electromagnetic Wave Response Derived from the Construction of Dielectric/Magnetic Media Heterostructure and Multiple Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9964-9974                        | 9.5 | 206 |
| 20 | Magnetic and electromagnetic properties of Fe <sub>3</sub> O <sub>4</sub> /Fe composites prepared by a simple one-step ball-milling. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 708, 587-593                                   | 5.7 | 28  |
| 19 | Application of unit polarization strategy to achieve high-performance electromagnetic absorption by designing ternary SiO <sub>2</sub> @TiO <sub>2</sub> -C composite. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 709, 796-801 | 5.7 | 16  |
| 18 | A facile one-pot strategy for fabrication of carbon-based microwave absorbers: effects on annealing and paraffin content. <i>Dalton Transactions</i> , <b>2017</b> , 46, 9097-9102   | 4.3 | 23  |
| 17 | Incorporation of dielectric constituents to construct ternary heterojunction structures for high-efficiency electromagnetic response. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 498, 161-169                         | 9.3 | 66  |
| 16 | Multiple Interfaces Structure Derived from Metal-Organic Frameworks for Excellent Electromagnetic Wave Absorption. <i>Particle and Particle Systems Characterization</i> , <b>2017</b> , 34, 1700006                                       | 3.1 | 62  |
| 15 | Investigating the synergistic impedance match and attenuation effect of Co@C composite through adjusting the permittivity and permeability. <i>Materials Research Express</i> , <b>2017</b> , 4, 035604                                    | 1.7 | 5   |
| 14 | Constructing hierarchical porous nanospheres for versatile microwave response approaches: the effect of architectural design. <i>Dalton Transactions</i> , <b>2017</b> , 46, 14264-14269   | 4.3 | 11  |
| 13 | Tunable Dielectric Performance Derived from the Metal-Organic Framework/Reduced Graphene Oxide Hybrid with Broadband Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10570-10579                           | 8.3 | 103 |
| 12 | Cross-Linking-Derived Synthesis of Porous CoNi/C Nanocomposites for Excellent Electromagnetic Behaviors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38814-38823  | 9.5 | 119 |
| 11 | Dielectric polarization in electromagnetic wave absorption: Review and perspective. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 1065-1075  | 5.7 | 240 |
| 10 | Achieving the interfacial polarization on C/FeC heterojunction structures for highly efficient lightweight microwave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 508, 462-468                              | 9.3 | 32  |
| 9  | Nanoporous TiO <sub>2</sub> /C composites synthesized from directly pyrolysis of a Ti-based MOFs MIL-125(Ti) for efficient microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 138-144                       | 5.7 | 61  |
| 8  | Strong electric wave response derived from the hybrid of lotus roots-like composites with tunable permittivity. <i>Scientific Reports</i> , <b>2017</b> , 7, 9462  | 4.9 | 19  |
| 7  | Incorporation of the polarization point on the graphene aerogel to achieve strong dielectric loss behavior. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 504, 479-484   | 9.3 | 16  |
| 6  | One-step synthesis of Ti <sup>3+</sup> doped TiO <sub>2</sub> single anatase crystals with enhanced photocatalytic activity towards degradation of methylene blue. <i>Materials Letters</i> , <b>2016</b> , 162, 138-141                   | 3.3 | 31  |

|   |  |     |     |
|---|--|-----|-----|
| 5 | Quasi-noble-metal graphene quantum dots deposited stannic oxide with oxygen vacancies: Synthesis and enhanced photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 481, 13-9 | 9.3 | 40  |
| 4 | Novel nanoporous carbon derived from metal-organic frameworks with tunable electromagnetic wave absorption capabilities. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 1516-1526                         | 6.8 | 93  |
| 3 | Thermal conversion of an Fe <sup>0</sup> @metal-organic framework: a new method for an efficient Fe-Co/nanoporous carbon microwave absorbing material. <i>Nanoscale</i> , <b>2015</b> , 7, 12932-42                | 7.7 | 366 |
| 2 | Preparation of Si/TiO <sub>2</sub> Heterojunction Nanotube Arrays via Electrodeposition and Their Enhanced Photocatalytic Activity. <i>Nanoscience and Nanotechnology Letters</i> , <b>2015</b> , 7, 840-845       | 0.8 | 4   |
| 1 | Organic-inorganic hybrid-reinforced flexible and robust 2D papers for high-efficiency microwave-absorbing films. <i>Journal of Materials Chemistry A</i> ,   | 13  | 3   |