



# Ali Jabbar Salim

علي جبار سالم كاطع الساعدي

Assistant Professor

## ACADEMIC TITLES

2017-04-18 Assistant Professor

## ADMINISTRATIVE POSITIONS

2021-06-01 - Present Deputy Head of Department

## PUBLICATIONS ( 7 7 )

- A Swastika-like fractal-based compact quarter-mode substrate integrated waveguide X-Band resonator**  
*AIP Conference Proceedings* 3169 (1), 2025 | 2025 | Cited: 1
- Design and optimization of a modified straight-tapered Vivaldi antenna using ANN for GPR system**  
*Open Engineering* 15 (1), 20250143, 2025 | 2025 | Cited: 1
- A Non-Destructive Technique for Asphalt Compaction Measurement Using Dual-Ring Resonator Sensor**  
*Progress in Electromagnetics Research C* 159, 2025 | 2025
- Enhancement of full double pass L-shape hybrid fiber amplifier utilizing tunable optical filter**  
*AIP Conference Proceedings* 3211 (1), 070002, 2025 | 2025
- Dual-Functional Antenna Array for Multi-Band MIMO Applications**  
*Cyber Intelligence and Information Retrieval: Proceedings of CIIR 2023&nbsp;...; 2025 | 2025*
- A Compact Dual-Band Dual-Polarized Antenna Based on Modified Minkowski Fractal.**  
*Progress in Electromagnetics Research C* 140, 2024 | 2024 | Cited: 7
- Performance enhancement of L-shape hybrid fiber amplifier via combining of tunable optical filter and second-order stimulated Raman scattering**  
*Journal of Optics* 53 (3), 2238-2246, 2024 | 2024
- Compact SIW BPF Loaded with a Tree Shaped Fractal Slot for LEO Satellite Communication Systems**  
*2024 3rd International Conference on Advances in Engineering Science and&nbsp;...; 2024 | 2024*
- A Proximity-Fed Multi-Band Printed Antenna for Wireless Communication Applications**  
*Progress in Electromagnetics Research C* 145, 2024 | 2024 | Cited: 9
- A high-efficiency, indirectly-fed, dual moon-shaped printed antenna for measuring sand gradation**  
*2024 IEEE 7th International Symposium on Telecommunication Technologies&nbsp;...; 2024 | 2024 | Cited: 2*
- Reconfigurable CRLH-inspired antenna based on Hilbert curve EBG structure for modern wireless systems**  
*Microwave and Optical Technology Letters* 65 (9), 2646-2655, 2023 | 2023 | Cited: 11
- Dual-Functional Antenna Array for Multi-Band MIMO Applications in 5th Generation Mobile Phones**  
*International Conference on Cyber Intelligence and Information Retrieval&nbsp;...; 2023 | 2023*
- Reconfigurable composite right/left-handed transmission line antenna based Hilbert/Minkowski stepped impedance resonator for wireless applications**  
*Radioelectronic and Computer Systems*, 77-91, 2023 | 2023 | Cited: 7
- Isolation techniques in MIMO antennas for 5G mobile devices (comprehensive review)**  
*Radioelectronics and Communications Systems* 66 (6), 263-287, 2023 | 2023 | Cited: 13

## CONTACT

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## EDUCATION

Doctorate (2012-02-25)  
Communication Engineering  
Technology

## RESEARCH METRICS

|                    |     |
|--------------------|-----|
| h-index (Scopus)   | 14  |
| h-index (GS)       | 16  |
| Citations (Scopus) | 523 |
| Citations (GS)     | 733 |
| Documents (Scopus) | 58  |
| Documents (GS)     | 73  |



15. **Методи розв'язки в антенах мімо для мобільних пристроїв 5G (комплексний огляд)**  
*Известия высших учебных заведений. Радиоэлектроника* | 2023
16. **A Miniaturized Square Cavity SIW Dual-Band BPF with Slotted Koch Snowflake Fractal Based Design**  
*SSRG International Journal of Electronics and Communication Engineering* 10&nbsp;..., 2023 | 2023 | Cited: 2
17. **Multi input multi output antenna array design for 5G n78 applications in smartphones**  
*Al-Rafidain Journal of Engineering Sciences*, 50-57, 2023 | 2023 | Cited: 3
18. **An eight-element multi-band MIMO antenna system for 5G mobile terminals**  
*AIP Conference Proceedings* 2651 (1), 060005, 2023 | 2023 | Cited: 16
19. **RECONFIGURABLE COMPOSITE RIGHT/LEFT-HANDED TRANSMISSION LINE ANTENNA BASED MINKOWSKI-STEPPED IMPEDANCE RESONATOR STRUCTURE FOR 5G COMMUNICATION NETWORKS**  
*Journal of Engineering Science and Technology* 18 (2), 1137-1152, 2023 | 2023
20. **Designing Eight-port Antenna Array for Multi-Band MIMO Applications in 5G Smartphones**  
*Journal of Telecommunications and Information Technology* 4, 18-24, 2023 | 2023 | Cited: 19
21. **A Slotted Peano-Type Fractal Based Highly Miniaturized Substrate Integrated Waveguide Dual-Mode BPF for Wireless Communication Systems**  
*2023 Al-Sadiq International Conference on Communication and Information&nbsp;..., 2023* | 2023 | Cited: 4
22. **Designing Eight-port Antenna Array for Multi-Band MIMO Applications in 5G Smartphones, Journal of Telecommunications and Information Technology, 2023, nr 4**  
*Instytut Łączności-Państwowy Instytut Badawczy, 2023* | 2023
23. **Compact MIMO antenna designs based on hybrid fractal geometry for 5G smartphone applications**  
*Prog. Electromagn. Res. C* 118, 247-262, 2022 | 2022 | Cited: 26
24. **A miniaturized printed circuit CRLH antenna-based Hilbert metamaterial array**  
*Journal of Communications Software and Systems* 18 (3), 236-243, 2022 | 2022 | Cited: 26
25. **A Compact High Isolation Four Elements MIMO Antenna System for 5G Mobile Devices**  
*Engineering and Technology Journal* 40 (08), 1055-1061, 2022 | 2022 | Cited: 9
26. **A Compact Self-Isolated MIMO Antenna System for 5G Mobile Terminals**  
*Computer Systems Science and Engineering* | 2022 | Cited: 20
27. **Antenna Gain-Bandwidth Enhancements Using CRLH Hilbert Fractal-based Structure**  
*Engineering and Technology Journal* | 2022 | Cited: 7
28. **A new tunable dual-mode dual-band square cavity siw bandpass filter**  
*Progress In Electromagnetics Research C* 118, 113-123, 2022 | 2022 | Cited: 13
29. **Design and Simulation of a CRLH Transmission Line Antenna of a Hilbert Fractal Geometry for S-Band Applications**  
*2021 International Conference on Electrical, Computer and Energy&nbsp;..., 2021* | 2021 | Cited: 3
30. **On the distortionless of uwb wearable hilbert-shaped metamaterial antenna for low energy applications**  
*Progress In Electromagnetics Research M* 101, 219-239, 2021 | 2021 | Cited: 32
31. **An Eight-Element MIMO Antenna system for 5G Mobile Handsets**  
*International Symposium on Networks, Computers and Communications, ISNCC&nbsp;..., 2021* | 2021 | Cited: 21
32. **A compact size multiband printed monopole antenna with triple sense circular polarization for wireless applications**  
*Journal of optoelectronics and advanced materials* 22 (September-October 2020&nbsp;..., 2020 | 2020 | Cited: 1
33. **A high gain microstrip antenna based on substrate integrated waveguide technology for modern wireless communication**  
*3rd International Conference on Engineering Sciences* 671 (012038), 2020 | 2020 | Cited: 1
34. **A compact multiband printed monopole antenna with hybrid polarization radiation for GPS, LTE, and satellite applications**  
*IEEE Access* 8, 110371-110380, 2020 | 2020 | Cited: 39

35. **Miniaturized SIW Wideband BPF Based on Folded Ring and Meander Line Slot for Wireless Applications**  
*2017 Second Al-Sadiq International Conference on Multidisciplinary in IT and&nbsp;...; 2019 | 2019 | Cited: 11*
36. **Wunderlich curve fractal dipole antenna for dual-band wearable RFID applications**  
*Journal of Engineering and Applied Sciences | 2019*
37. **A new miniaturized folded fractal based PIFA antenna design for MIMO wireless applications**  
*Proceedings of the International Conference on Information and Communication&nbsp;...; 2019 | 2019 | Cited: 9*
38. **Design of Enhanced Distance-Based Neighbor Protocol for MANET with the Aid of ELECTRE Algorithm**  
*SCCS 2019 - 2019 2nd Scientific Conference of Computer Sciences | 2019*
39. **Complex constitutive characterizations of materials in the X-band using a non-destructive technique**  
*Special Issue of the 8th International Advances in Applied Physics and&nbsp;...; 2019 | 2019 | Cited: 7*
40. **A compact dual-band bpf based on open loop resonator for satellite communication applications**  
*Engineering and Technology Journal 36 (9), 997-1001, 2018 | 2018 | Cited: 2*
41. **A Circular Patch Antenna Based Substrate Integrated Waveguide Technology for 5<sup>th</sup> Generation Systems**  
*2018 3rd Scientific Conference of Electrical Engineering, SCEE 2018 | 2018*
42. **A polygonal open-loop resonator compact bandpass filter for Bluetooth and WLAN applications**  
*IOP Conference Series: Materials Science and Engineering 433, 012083, 2018 | 2018 | Cited: 10*
43. **Design of compact dual-mode fractal based microstrip band reject filter**  
*ARPJ Journal of Engineering and Applied Sciences 13 (7), 2395-2399, 2018 | 2018 | Cited: 8*
44. **Design of compact dual-band fractal monopole antenna with virtually extended ground plane**  
*Advanced Electromagnetics 7 (4), 2018 | 2018 | Cited: 16*
45. **A Circular Patch Antenna Based Substrate Integrated Waveguide Technology for 5th Generation Systems**  
*(2018 Third Scientific Conference of Electrical Engineering (SCEE), 270 - 273, 2018 | 2018 | Cited: 1*
46. **A Dual-Band BPF Based on Asymmetrical-Meandered Configuration for Communication Systems**  
*2018 Third Scientific Conference of Electrical Engineering (SCEE), 294-298, 2018 | 2018 | Cited: 4*
47. **Design of Fractal- Based Bandstop Filter for Microwave Radiation Leakage Reduction**  
*Engineering and Technology Journal | 2017 | Cited: 16*
48. **Compact Dual-mode Microstrip Band Reject Filters Based on Koch Fractal Geometry**  
*Progress In Electromagnetics Research Symposium, PIERS 2017, St Petersburg&nbsp;...; 2017 | 2017 | Cited: 3*
49. **A Fractal Based BSF for Microwave Oven Radiation Leakage Reduction**  
*2016*
50. **A Fractal-based Dual-mode Microstrip Bandstop Filter for Wireless Applications**  
*2016 16th Mediterranean Microwave Symposium (MMS), 1-4, 2016 | 2016 | Cited: 9*
51. **A dual-band bandpass filter using single unit cell of complementary split ring resonator with third harmonic reduction**  
*2016 Al-Sadeq International Conference on Multidisciplinary in IT and&nbsp;...; 2016 | 2016 | Cited: 4*
52. **A helical-shaped slot microstrip band pass filter based on SIW technology for WLAN and bluetooth applications**  
*2016 Al-Sadeq International Conference on Multidisciplinary in IT and&nbsp;...; 2016 | 2016 | Cited: 8*
53. **A compact triple band BSF design based on Minkowski fractal Geometry**  
*2016 18th Mediterranean Electrotechnical Conference (MELECON), 1-5, 2016 | 2016 | Cited: 18*
54. **A compact bandpass filter based on fractal defected ground structure Resonators**  
*Submitted to IETE Journal of Research, 2016 | 2016 | Cited: 5*
55. **Extraction of dual-band antenna response from UWB based on current distribution analysis**  
*Technical Report, MRG 6–2016, Microwave Research Group, Department of&nbsp;...; 2016 | 2016 | Cited: 8*
56. **Wunderlich Fractal-based Printed Dual-band Dipole Antenna for Wearable RFID Applications**  
*Technical Report MRG 4, 2016 | 2016 | Cited: 17*

57. **Cantor fractal-based printed slot antenna for dual-band wireless applications**  
*International Journal of Microwave and Wireless Technologies* 8 (2), 263-270, 2016 | 2016 | Cited: 49
58. **A Compact Dual-band Bandstop Filter Based on Fractal Microstrip Resonators**  
*Progress In Electromagnetics Research Symposium, PIERS 2015, 2015* | 2015 | Cited: 20
59. **An Accurate Technique to Model the Substrate of Wearable Textile Antennas**  
*PIERS Proceedings, 2015* | 2015
60. **Compact Substrate Integrated Waveguide BPF for Wideband Communication Applications**  
*Proceedings of Progress In Electromagnetics Research Symposium, 2015* | 2015 | Cited: 24
61. **Design of Compact Dual-band Antenna for 4G LTE Wireless Devices**  
*Engineering and Technology Journal, 2015, University of Technology, Iraq, 2015* | 2015 | Cited: 1
62. **Wearable Sierpinski Dragon Fractal Patch Antenna for RFID Applications**  
*International Conference on Engineering Sciences Applications, 2014* | 2014 | Cited: 2
63. **A Dual-band Printed Slot Antenna Based on Modified Sierpinski Triangle**  
*International Journal of Electronics Communication and Computer Engineering&nbsp;..., 2014* | 2014 | Cited: 6
64. **Fabrication and Performance Evaluation of a Fractal-based Slot Printed Antenna for Dual-band Wireless Applications**  
*Iraqi Journal of Computer, Communication and Control Systems Engineering&nbsp;..., 2014* | 2014 | Cited: 24
65. **A fractal-based printed slot antenna for multi-band wireless applications**  
*Progress In Electromagnetics Research Symposium, Stockholm, Sweden, 1047 - 1051, 2013* | 2013 | Cited: 6
66. **A new compact slot antenna for dual-band WLAN applications**  
*International Journal of Science and Modern Engineering* 1 (10), 28-32, 2013 | 2013 | Cited: 13
67. **A Compact Fractal Based Printed Monopole Antenna for WiBro, WiMax and UWB Applications**  
*International Journal of Engineering and Advanced Technology (IJEAT)* 3 (1&nbsp;..., 2013 | 2013
68. **A compact Peano-type fractal based printed slot antenna for dual-band wireless applications**  
*2013 IEEE International RF and Microwave Conference (RFM 2013), Penang&nbsp;..., 2013* | 2013 | Cited: 36
69. **A Circular Cantor Fractal Based Printed Slot Antenna for Triple and Dual-band Wireless Applications**  
*International Journal of Electronics Communication and Computer Engineering&nbsp;..., 2013* | 2013 | Cited: 6
70. **A printed fractal based slot antenna for multi-band wireless communication applications**  
*Proceedings of Progress In Electromagnetics Research Symposium, Moscow, Russia, 2012* | 2012 | Cited: 33
71. **An ultra-wideband printed monopole antenna with a fractal based reduced ground plane**  
*Progress In Electromagnetics Research Symposium, Moscow, Russia, 613 - 617, 2012* | 2012 | Cited: 16
72. **A New Fractal Based PIFA Antenna Design for MIMO Dual Band WLAN Applications**  
*Progress In Electromagnetics Research Symposium, KL, MALAYSIA, 1526 - 1530, 2012* | 2012 | Cited: 14
73. **A New Tunable Dual-mode Bandpass Filter Design Based on Fractally Slotted Microstrip Patch Resonator**  
*Progress In Electromagnetics Research Symposium, KL, MALAYSIA, 1225 - 1228, 2012* | 2012 | Cited: 8
74. **A new compact size fractal based microstrip slot antenna for GPS applications**  
*Conference: Progress In Electromagnetics Research Symposium, 2012* | 2012 | Cited: 28
75. **A New CPW-Fed C-slot Based Printed Antenna for Dual Band WLAN Applications**  
*Session 3P8, 741, 2012* | 2012
76. **Design of Internal Dual Band Printed Monopole Antenna Based on Peano-type Fractal Geometry for WLAN USB Dongle**  
*Progress In Electromagnetics Research Symposium, Suzhou, China, 1268 - 1272, 2011* | 2011 | Cited: 15
77. **Design and Fabrication of Band Pass Filter (BPF) Based on Substrate Integrated Waveguide (SIW) Technology for Communication Applications**

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