

# Alexander S. Bugaev

*Doctor of Science*

**RUSSIA**



	<b>Author-ID</b>	<b>Publications</b>	<b>Citations</b>	<b>h-index</b>
<b>Web of Science Researcher-ID</b>	<b>J-3507-2013</b>	<b>139</b>	<b>602</b>	<b>12</b>
<b>SCOPUS</b>	<b>35577747500</b>	<b>224</b>	<b>1075</b>	<b>17</b>
<b>RSCI</b>	<b>8472</b>	<b>265</b>	<b>1587</b>	<b>18</b>

Academician of the Russian Academy of Sciences. Laureate of the Lenin Komsomol Prize, the RF State Prize and the RF Government Prize. Specialist in the field of electronic components, computer science and mathematical modeling of semiconductor and solid-state information processing devices. He created the theoretical foundations of heating acoustoelectronic phenomena, predicted the appearance in semiconductors under the action of ultrasound of waves of electron temperature, acoustic overheating instability; the theory of propagation of acoustic waves in low-frequency alternating external fields was developed; the analysis of the fundamental features of devices with acoustic charge transfer, acoustic delay lines and filters of microwave signals was carried out; the theory of interaction of ultrasonic oscillations with autowave systems, waves of electron-hole plasma, waves of spatial recharge of traps is constructed. Author of over 400 scientific papers and inventions