Supplementary Information (SI) for Environmental Science: Nano. This journal is © The Royal Society of Chemistry 2025

Supplementary Materials

Supplementary Figure 1. Physichemical characteristics of PET MNPs (a) TEM, (b) particle size distribution, (c) EDX spectrum, (d) BET sorption/desorption isotherms, (e) FTIR spectrum (Figures from our previous work (https://doi.org/10.1002/tox.24366)³⁴).



Supplementary Figure 2. Experimental set-up for the MNP-BSA interaction







Supplementary Figure 4. Fluorescence spectra of BSA standards at the concentration of 0.02 mM, 0.05 mM and 0.2 mM.



Supplementary Figure 5. Correlation and heat map between the cytotoxic (MTT, CCK-8 and LDH levels) and oxidative stress indicators of A549 cell. (a) PET MNP treatment stage relationship, (b) BSA concentration relationship

| (a) | Parameters | 2 h PE | ET MNP treat | tment | 24 h P | ET MNP trea | tment | 48 h PE | T MNP treat | ment |
|-----|------------|--------|--------------|-------|--------|-------------|-------|---------|-------------|-------|
| | | Low | Medium | High | Low | Medium | High | Low | Medium | High |
| | MTT-CCK | 0.87 | -0.03 | 0.99 | -0.99 | 0.02 | -0.46 | 1.00 | 0.98 | 0.95 |
| | MTT-LDH | 0.97 | 0.92 | 0.83 | -0.58 | 0.84 | 0.65 | -0.37 | 1.00 | -0.18 |
| | MTT-ROS | 0.36 | 0.93 | 0.51 | -0.37 | -0.83 | -0.47 | 0.68 | -0.70 | -0.70 |
| | MTT-AOX | -0.34 | -0.70 | 0.22 | -0.91 | 0.30 | -0.06 | 0.94 | -0.51 | 0.37 |
| | MTT-SOD | 0.97 | -0.92 | 0.69 | -0.24 | -0.92 | 0.90 | 0.80 | -0.84 | -0.92 |
| | MTT-GLU | -0.93 | 0.24 | 0.82 | 0.90 | 0.65 | 0.80 | -0.22 | -0.72 | 0.66 |
| | CCK-ROS | 0.74 | 0.98 | 0.56 | -0.01 | -0.73 | -0.42 | 0.68 | -0.74 | -0.83 |
| | CCK-AOX | -0.75 | -0.70 | 0.34 | 0.96 | 0.96 | 0.91 | 0.94 | -0.65 | 0.64 |
| | CCK-SOD | 0.97 | 0.42 | 0.60 | 0.12 | 0.37 | -0.02 | 0.80 | -0.93 | -0.76 |
| | CCK-GLU | -0.99 | 0.96 | 0.74 | -0.95 | 0.77 | 0.17 | -0.49 | -0.63 | 0.93 |
| | LDH-CCK | 0.97 | 0.36 | 0.75 | 0.48 | 0.56 | -0.98 | -0.38 | 0.99 | 0.14 |
| | LDH-ROS | 0.51 | 0.90 | -0.27 | -0.53 | -0.41 | -0.74 | 0.44 | -0.75 | 0.25 |
| | LDH-AOX | -0.56 | -0.92 | -0.36 | 0.20 | 0.77 | -0.80 | -0.05 | -0.57 | 0.85 |
| | LDH-SOD | 1.00 | -0.69 | 0.98 | 0.93 | -0.57 | 0.24 | 0.25 | -0.88 | 0.54 |
| | LDH-GLU | -0.99 | 0.60 | 1.00 | -0.17 | 0.96 | 0.05 | -0.62 | -0.70 | -0.24 |

(b) _[

| | C | 0.02 mM BSA | | | 0.05 mM BSA | L | | 0.2 mM BSA | | | |
|-------------|-------|-------------|-------|-------|-------------|-------|-------|------------|-------|--|--|
| | Low | Medium | High | Low | Medium | High | Low | Medium | High | | |
| MTT-CCK | 0.99 | 0.99 | 0.97 | 0.64 | 0.97 | 0.63 | 0.97 | 0.99 | 0.90 | | |
| MTT-LDH | -0.58 | 0.31 | 0.98 | 0.88 | 0.27 | 0.65 | 0.33 | 0.66 | 0.90 | | |
| MTT- ROS | 0.55 | -0.33 | -0.63 | -0.73 | -0.72 | -0.51 | -0.29 | -0.38 | 0.32 | | |
| MTT-AOX | 0.86 | 0.56 | 0.64 | -0.40 | 0.60 | 0.66 | 0.85 | -0.47 | 0.14 | | |
| MTT-SOD | -0.63 | 0.72 | -0.25 | 0.24 | 0.92 | 0.90 | 0.81 | 0.86 | -0.73 | | |
| MTT-GLU | 0.00 | -0.89 | 0.18 | 0.52 | 0.36 | 0.44 | 0.99 | 0.75 | 0.62 | | |
| CCK- ROS | 0.46 | -0.23 | -0.43 | -0.83 | -0.54 | -0.82 | -0.44 | -0.30 | 0.43 | | |
| CCK - AOX | 0.90 | 0.49 | 0.44 | 0.36 | 0.65 | 0.48 | 0.79 | -0.35 | 0.49 | | |
| CCK-SOD | -0.69 | 0.72 | -0.09 | 0.50 | 0.79 | 0.25 | 0.66 | 0.91 | -0.57 | | |
| CCK-GLU | -0.04 | -0.89 | 0.26 | 0.91 | 0.43 | 0.92 | 0.99 | 0.79 | 0.22 | | |
| LDH-CCK | -0.49 | 0.27 | 0.95 | 0.29 | 0.36 | -0.18 | 0.19 | 0.71 | 0.62 | | |
| LDH- ROS | -0.94 | -0.26 | -0.65 | -0.62 | -0.24 | 0.23 | -0.31 | -0.50 | 0.13 | | |
| LDH-AOX | -0.15 | 0.86 | 0.63 | -0.77 | -0.39 | 0.25 | -0.05 | 0.01 | -0.26 | | |
| LDH-SOD | -0.17 | -0.38 | -0.10 | -0.20 | 0.17 | 0.87 | 0.77 | 0.56 | -0.76 | | |
| LDH-GLU | -0.24 | -0.65 | 0.36 | 0.31 | 0.99 | -0.38 | 0.31 | 0.99 | 0.90 | | |

Supplementary Figure 6. Correlation analysis between A549 cell responses and binding and oxidative characteristics of BSA. (a) PET MNP treatment stage relationship, (b) BSA concentration relationship

| NNN | | | | | Van | | | | Folding | | | | A second a state state | | | Zeta potentials | | | DTT | | | nos | | | |
|--|---------------|--|-------------------------------|---------|--------|-------|-------|---------|---------|-------|-------|---------------------|------------------------|--------|---------|-----------------|---------|--------|---------|---------|--------|---------|---------|--------|--|
| hhh | (a) | Cytotoxicity and oxidative parameters | Exposure concentr to A549 | ation | 2 h | 24 h | 48 h | 21 | n F | 24 h | 48 h | 2 h | Aromatic sid | 48 h | | 2 h | 24 h | 48 h | 2 h | 24 h | 48 h | 2 h | 24 h | 48 h | |
| Image:Image | | | low | | 1.00 | -0.70 | 0.96 | 0.6 | 5 | 0.82 | 0.92 | 0.90 | -0.99 | 0.98 | 0 | 0.91 | 0.76 | 0.99 | 0.98 | -0.83 | -0.39 | 0.94 | -0.76 | 0.85 | |
| Image: start in the start in | | MTT | | | 0.47 | 0.80 | 0.00 | | 2 | 0.58 | | 0.77 | 0.08 | 0.92 | | 0.00 | 0.02 | 0.82 | 0.57 | 0.07 | 0.36 | 0.06 | 0.02 | 0.00 | |
| Image: space s | | MIII | hist | | 0.47 | 0.22 | 0.88 | -0,4 | 0 | 0.00 | 0.95 | 0.77 | -0.98 | 0.83 | | 1.00 | 0.41 | 0.83 | 0.57 | 0.50 | 0.30 | 1.00 | -0.33 | 0.50 | |
| corrimagei | | <u> </u> | nign | | -0.89 | -0.32 | 0.75 | -0.0 | | 0.99 | 0.66 | -0.00 | -0.83 | 0.81 | | 1.00 | 0.41 | 0.81 | -0.85 | -0.30 | -0.75 | -1.00 | -0.40 | 0.34 | |
| Image manue manue <t< td=""><td></td><td></td><td>low</td><td></td><td>0.91</td><td>0.60</td><td>0.96</td><td>0.2</td><td>0</td><td>0.88</td><td>0.92</td><td>1.00</td><td>0.97</td><td>0.98</td><td></td><td>0.60</td><td>-0.68</td><td>0.98</td><td>0.95</td><td>0.75</td><td>-0.40</td><td>0.65</td><td>0.07</td><td>0.85</td></t<> | | | low | | 0.91 | 0.60 | 0.96 | 0.2 | 0 | 0.88 | 0.92 | 1.00 | 0.97 | 0.98 | | 0.60 | -0.68 | 0.98 | 0.95 | 0.75 | -0.40 | 0.65 | 0.07 | 0.85 | |
| Image:Image | | CCK | medium | | -0.89 | 0.44 | 0.95 | -0.8 | .9 | 0.82 | 0.98 | -0.67 | -0.21 | 0.92 | | 1.00 | -0.34 | 0.91 | -0.84 | 0.24 | 0.18 | -1.00 | 0.35 | 1.00 | |
| Image: state s | | | high | - | -0.94 | | 0.92 | -0.8 | 13 | 0.31 | 0.86 | -0.75 | 0.87 | 0.95 | - | 0.99 | -1.00 | 0.96 | -0.90 | 1.00 | -0.51 | -1.00 | 1.00 | 0.77 | |
| Image made made <t< td=""><td></td><td></td><td>low</td><td></td><td>0.99</td><td>0.99</td><td>-0.11</td><td>0.4</td><td>5</td><td>0.01</td><td>0.01</td><td>0.98</td><td>0.69</td><td>-0.20</td><td>0</td><td>0.78</td><td>-0.97</td><td>-0.21</td><td>1.00</td><td>0.94</td><td>1.00</td><td>0.82</td><td>0.97</td><td>0.17</td></t<> | | | low | | 0.99 | 0.99 | -0.11 | 0.4 | 5 | 0.01 | 0.01 | 0.98 | 0.69 | -0.20 | 0 | 0.78 | -0.97 | -0.21 | 1.00 | 0.94 | 1.00 | 0.82 | 0.97 | 0.17 | |
| Image Image <th< td=""><td></td><td>LDH</td><td>medium</td><td></td><td>0.09</td><td>-0.51</td><td>0.91</td><td>-0.7</td><td>5</td><td>0.93</td><td>0.96</td><td>0.45</td><td>-0.93</td><td>0.87</td><td>- (</td><td>0.40</td><td>0.59</td><td>0.87</td><td>0.21</td><td>-0.67</td><td>0.28</td><td>-0.34</td><td>-0.58</td><td>0.99</td></th<> | | LDH | medium | | 0.09 | -0.51 | 0.91 | -0.7 | 5 | 0.93 | 0.96 | 0.45 | -0.93 | 0.87 | - (| 0.40 | 0.59 | 0.87 | 0.21 | -0.67 | 0.28 | -0.34 | -0.58 | 0.99 | |
| Image Image <th< td=""><td></td><td></td><td>high</td><td></td><td>-0.49</td><td>-0.93</td><td>0.52</td><td>-0.5</td><td>19</td><td>0.51</td><td>0.62</td><td>-0.13</td><td>-0.96</td><td>0.44</td><td>-0</td><td>0.85</td><td>0.96</td><td>0.43</td><td>-0.38</td><td>-0.99</td><td>0.78</td><td>-0.81</td><td>-0.96</td><td>0.74</td></th<> | | | high | | -0.49 | -0.93 | 0.52 | -0.5 | 19 | 0.51 | 0.62 | -0.13 | -0.96 | 0.44 | -0 | 0.85 | 0.96 | 0.43 | -0.38 | -0.99 | 0.78 | -0.81 | -0.96 | 0.74 | |
| Image Image <t< td=""><td></td><td></td><td>low</td><td></td><td>0.50</td><td>-0.31</td><td>0.83</td><td>-0.4</td><td>0</td><td>0.89</td><td>0.89</td><td>0.79</td><td>0.34</td><td>0.78</td><td>0</td><td>0.03</td><td>0.22</td><td>0.77</td><td>0.60</td><td>-0.11</td><td>0.44</td><td>0.09</td><td>-0.23</td><td>0.95</td></t<> | | | low | | 0.50 | -0.31 | 0.83 | -0.4 | 0 | 0.89 | 0.89 | 0.79 | 0.34 | 0.78 | 0 | 0.03 | 0.22 | 0.77 | 0.60 | -0.11 | 0.44 | 0.09 | -0.23 | 0.95 | |
| Image Image <t< td=""><td></td><td>ROS</td><td>medium</td><td></td><td>-0.50</td><td>-0.39</td><td>-0.96</td><td>-0.5</td><td>19</td><td>0.85</td><td>-0.91</td><td>-0.15</td><td>0.26</td><td>-0.98</td><td>-0</td><td>0.85</td><td>0.30</td><td>-0.98</td><td>-0.40</td><td>-0.20</td><td>0.41</td><td>-0.82</td><td>-0.31</td><td>-0.84</td></t<> | | ROS | medium | | -0.50 | -0.39 | -0.96 | -0.5 | 19 | 0.85 | -0.91 | -0.15 | 0.26 | -0.98 | -0 | 0.85 | 0.30 | -0.98 | -0.40 | -0.20 | 0.41 | -0.82 | -0.31 | -0.84 | |
| Image: bial bial bial bial bial bial bial bial | | | high | - | -0.58 | -0.67 | -0.92 | -1.0 | 0 | 0.62 | -0.86 | -0.24 | -0.08 | -0.95 | | 0.90 | 0.60 | -0.95 | -0.48 | -0.51 | 0.52 | -0.87 | -0.60 | -0.77 | |
| h m | | | low | - | -0.41 | 0.34 | 1.00 | 0.4 | 9 | 0.98 | 1.00 | -0.72 | 0.85 | 0.99 | 0 | 0.08 | -0.43 | 0.99 | -0.51 | 0.53 | -0.07 | 0.01 | 0.43 | 0.98 | |
| Image: | | Antiox | medium | | 0.30 | 0.17 | -0.86 | 0.9 | 5 | 0.95 | -0.79 | -0.07 | -0.48 | -0.90 | G | 0.72 | -0.07 | -0.90 | 0.19 | -0.04 | 0.62 | 0.68 | 0.08 | -0.68 | |
| Image Image <t< td=""><td></td><td></td><td>high</td><td>1.00</td><td>-0.64</td><td>0.97</td><td>0.89</td><td>0.2</td><td>4</td><td>0.10</td><td>0.94</td><td>-0.88</td><td>0.60</td><td>0.85</td><td>-0</td><td>0.19</td><td>-0.94</td><td>0.84</td><td>-0.72</td><td>0.89</td><td>0.33</td><td>-0.25</td><td>0.94</td><td>0.98</td></t<> | | | high | 1.00 | -0.64 | 0.97 | 0.89 | 0.2 | 4 | 0.10 | 0.94 | -0.88 | 0.60 | 0.85 | -0 | 0.19 | -0.94 | 0.84 | -0.72 | 0.89 | 0.33 | -0.25 | 0.94 | 0.98 | |
| h m | | | low | | -0.96 | -0.31 | -0.71 | -0.3 | 3 | 0.99 | -0.79 | -1.00 | -0.83 | -0.64 | - (| 0.70 | 0.40 | -0.63 | -0.98 | -0.50 | -0.61 | -0.75 | -0.39 | -0.88 | |
| Image Image <th< td=""><td></td><td>GR</td><td>medium</td><td>-</td><td>-0.74</td><td>-0.24</td><td>-0.35</td><td>-0.9</td><td>18</td><td>1.00</td><td>-0.47</td><td>-0.44</td><td>-0.79</td><td>-0.27</td><td>-</td><td>0.97</td><td>0.33</td><td>-0.26</td><td>-0.66</td><td>-0.43</td><td>-0.88</td><td>-0.95</td><td>-0.32</td><td>-0.60</td></th<> | | GR | medium | - | -0.74 | -0.24 | -0.35 | -0.9 | 18 | 1.00 | -0.47 | -0.44 | -0.79 | -0.27 | - | 0.97 | 0.33 | -0.26 | -0.66 | -0.43 | -0.88 | -0.95 | -0.32 | -0.60 | |
| Image: base of the base of | | | high | | 0.47 | 0.32 | 0.71 | -0.5 | 19 | 0.89 | 0.61 | -0.11 | -0.33 | 0.77 | | 0.83 | -0.22 | 0.77 | .0.36 | 0.12 | -0.80 | -0.80 | 0.23 | 0.48 | |
| bot image | | <u> </u> | low | | 0.99 | 0.86 | 0.93 | 0.4 | 5 | 0.36 | 0.97 | 0.98 | 0.37 | 0.90 | 0 | 0.78 | -0.81 | 0.89 | 1.00 | 0.74 | 0.23 | 0.82 | 0.81 | 1.00 | |
| Norm Imp 0.0 </td <td></td> <td>SOD</td> <td>medium</td> <td></td> <td>0.78</td> <td></td> <td>-1.00</td> <td>0.0</td> <td>4</td> <td>0.23</td> <td>.0.98</td> <td>.0.96</td> <td>0.83</td> <td>-1.00</td> <td></td> <td>0.39</td> <td>-1.00</td> <td>-1.00</td> <td>.0.85</td> <td>0.99</td> <td>0.20</td> <td>-0.45</td> <td>1.00</td> <td>-0.94</td> | | SOD | medium | | 0.78 | | -1.00 | 0.0 | 4 | 0.23 | .0.98 | .0.96 | 0.83 | -1.00 | | 0.39 | -1.00 | -1.00 | .0.85 | 0.99 | 0.20 | -0.45 | 1.00 | -0.94 | |
| b) image i | | | high | | 0.29 | 0.14 | -0.44 | -0.6 | | 0.96 | .0.33 | 0.08 | -0.50 | -0.52 | | 0.71 | -0.04 | .0.53 | .0.18 | -0.07 | 0.95 | -0.67 | 0.05 | -0.17 | |
| <table-container>Prime manner manner mannerPer-Fer mannerPer-Fer manner manner mannerPer-Fer manner manner manner manner mannerPer-Fer manner m</br></br></table-container> | | | | | | | | | | | | | | | | | | | | | | | | | |
| betweenorigination </td <td></td> <td>Cytotoxicity and</td> <td>Exposure</td> <td></td> <td colspan="3">Ksv</td> <td colspan="3">Folding</td> <td></td> <td colspan="3">Aromatic side chain</td> <td></td> <td colspan="3">Zeta potentials</td> <td colspan="3">ROS</td> <td></td> <td colspan="3">DTT</td> | | Cytotoxicity and | Exposure | | Ksv | | | Folding | | | | Aromatic side chain | | | | Zeta potentials | | | ROS | | | | DTT | | |
| D Image Ima | $(1, \gamma)$ | oxidative parameters | concentration to A549 0.02 | 0.02 mM | 0.05 m | nM 0. | 2 mM | 0.02 mM | 0.05 mM | 0.2 1 | nM | 0.02 mM | 0.05 mM | 0.2 mM | 0.02 mM | M | 0.05 mM | 0.2 mM | 0.02 mM | 0.05 mM | 0.2 mM | 0.02 mM | 0.05 mM | 0.2 mM | |
| Image Image <t< td=""><td>(D)</td><td></td><td>low</td><td>0.88</td><td>0.7</td><td>6</td><td>0.63</td><td>0.90</td><td>-0.35</td><td>-0</td><td>50</td><td>0.23</td><td>-0.03</td><td>-0.38</td><td>0.25</td><td></td><td>.0.50</td><td>0.20</td><td>0.92</td><td>.0.65</td><td>0.57</td><td>0.44</td><td>-0.82</td><td>-0.77</td></t<> | (D) | | low | 0.88 | 0.7 | 6 | 0.63 | 0.90 | -0.35 | -0 | 50 | 0.23 | -0.03 | -0.38 | 0.25 | | .0.50 | 0.20 | 0.92 | .0.65 | 0.57 | 0.44 | -0.82 | -0.77 | |
| M11 Mam Mam <td></td> <td></td> <td></td> <td>0.64</td> <td></td> <td></td> <td>0.71</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td>0.01</td> <td>0.02</td> <td>0.00</td> <td>0.00</td> <td></td> <td>0.77</td> <td>1.00</td> <td>0.57</td> <td>0.26</td> <td>0.00</td> <td>0.07</td> <td>0.50</td> <td>0.72</td> | | | | 0.64 | | | 0.71 | 0.00 | 0.00 | | | 0.01 | 0.02 | 0.00 | 0.00 | | 0.77 | 1.00 | 0.57 | 0.26 | 0.00 | 0.07 | 0.50 | 0.72 | |
| Image Image <th< td=""><td></td><td>NIII -</td><td>medium</td><td>-0.64</td><td>-0.0</td><td></td><td>0.71</td><td>-0.60</td><td>-0.64</td><td>0.8</td><td></td><td>0.91</td><td>-0.37</td><td>0.88</td><td>0.90</td><td></td><td>-0.77</td><td>1,00</td><td>-0.57</td><td>-0.36</td><td>0.88</td><td>-0.97</td><td>-0.58</td><td>-0.72</td></th<> | | NIII - | medium | -0.64 | -0.0 | | 0.71 | -0.60 | -0.64 | 0.8 | | 0.91 | -0.37 | 0.88 | 0.90 | | -0.77 | 1,00 | -0.57 | -0.36 | 0.88 | -0.97 | -0.58 | -0.72 | |
| Image Image <t< td=""><td></td><td></td><td>high</td><td>0.46</td><td>0.0.</td><td>2 .</td><td>0.59</td><td>0.50</td><td>0.47</td><td>-0.4</td><td>+7</td><td>0.74</td><td>0.73</td><td>-0.34</td><td>0.75</td><td>_</td><td>0.32</td><td>0.24</td><td>0.53</td><td>-1.00</td><td>0.61</td><td>-0.15</td><td>-0.97</td><td>-0.80</td></t<> | | | high | 0.46 | 0.0. | 2 . | 0.59 | 0.50 | 0.47 | -0.4 | +7 | 0.74 | 0.73 | -0.34 | 0.75 | _ | 0.32 | 0.24 | 0.53 | -1.00 | 0.61 | -0.15 | -0.97 | -0.80 | |
| CCK India Out Out </td <td></td> <td> -</td> <td>low</td> <td>0.30</td> <td>0.9</td> <td>y</td> <td>0.95</td> <td>0.25</td> <td>-0.82</td> <td>-0.3</td> <td>59</td> <td>-1.00</td> <td>-0.59</td> <td>-0.82</td> <td>-1.00</td> <td></td> <td>-0.90</td> <td>-0.35</td> <td>0.22</td> <td>-0.11</td> <td>0.04</td> <td>0.80</td> <td>-0.36</td> <td>-0.31</td> | | - | low | 0.30 | 0.9 | y | 0.95 | 0.25 | -0.82 | -0.3 | 59 | -1.00 | -0.59 | -0.82 | -1.00 | | -0.90 | -0.35 | 0.22 | -0.11 | 0.04 | 0.80 | -0.36 | -0.31 | |
| Indic Indi Indic Indic <thi< td=""><td></td><td></td><td>medium</td><td>0.89</td><td>-0.1</td><td>.0</td><td>.0.50</td><td>0.91</td><td>-1.00</td><td>-0</td><td>57</td><td>0.20</td><td>-0.96</td><td>-0.24</td><td>0.22</td><td></td><td>-0.97</td><td>0.34</td><td>0.93</td><td>0.53</td><td>0.69</td><td>0.46</td><td>0.30</td><td>-0.85</td></thi<> | | | medium | 0.89 | -0.1 | .0 | .0.50 | 0.91 | -1.00 | -0 | 57 | 0.20 | -0.96 | -0.24 | 0.22 | | -0.97 | 0.34 | 0.93 | 0.53 | 0.69 | 0.46 | 0.30 | -0.85 | |
| Image Image <t< td=""><td></td><td>├───│</td><td>high</td><td>-0.67</td><td>-0.4</td><td>0</td><td>0.70</td><td>-0.71</td><td>0.80</td><td>-0.</td><td>59</td><td>-0.54</td><td>0.95</td><td>-0.47</td><td>-0.56</td><td></td><td>0.68</td><td>0.10</td><td>-0.73</td><td>-0.91</td><td>0.49</td><td>-0.11</td><td>-0.78</td><td>-0.70</td></t<> | | ├ ─── │ | high | -0.67 | -0.4 | 0 | 0.70 | -0.71 | 0.80 | -0. | 59 | -0.54 | 0.95 | -0.47 | -0.56 | | 0.68 | 0.10 | -0.73 | -0.91 | 0.49 | -0.11 | -0.78 | -0.70 | |
| Indic indid indic indic <t< td=""><td></td><td></td><td>low</td><td>0.99</td><td>1.0</td><td></td><td>0.76</td><td>1.00</td><td>-0.82</td><td>0.8</td><td>5</td><td>-0.12</td><td>-0.68</td><td>0.91</td><td>-0.10</td><td></td><td>-0.91</td><td>0.98</td><td>1.00</td><td>-0.10</td><td>0.84</td><td>0.72</td><td>-0.35</td><td>-0.66</td></t<> | | | low | 0.99 | 1.0 | | 0.76 | 1.00 | -0.82 | 0.8 | 5 | -0.12 | -0.68 | 0.91 | -0.10 | | -0.91 | 0.98 | 1.00 | -0.10 | 0.84 | 0.72 | -0.35 | -0.66 | |
| Indic Matrix Outs Outs O | | | medium | -0.24 | 0.9 | 0 | 0.81 | -0.19 | -0.58 | 0.8 | 9 | 1.00 | -0.61 | 0.95 | 1.00 | | -0.71 | 0.97 | -0.16 | -0.44 | 0.79 | -0.76 | -0.65 | -0.60 | |
| here index index <th< td=""><td></td><td></td><td>high</td><td>0.58</td><td>-0.0</td><td>18</td><td>0.01</td><td>0.62</td><td>-0.42</td><td>-0.</td><td>14</td><td>0.63</td><td>1.00</td><td>-0.27</td><td>0.65</td><td></td><td>-0.26</td><td>-0.76</td><td>0.65</td><td>1.00</td><td>-0.96</td><td>0.00</td><td>0.98</td><td>1.00</td></th<> | | | high | 0.58 | -0.0 | 18 | 0.01 | 0.62 | -0.42 | -0. | 14 | 0.63 | 1.00 | -0.27 | 0.65 | | -0.26 | -0.76 | 0.65 | 1.00 | -0.96 | 0.00 | 0.98 | 1.00 | |
| Res media 1.02 0.03 0.04 0.05 0.05 0.02 0.04 0.05 <t< td=""><td></td><td></td><td>low</td><td>-1.00</td><td>-1.0</td><td>10</td><td>0.90</td><td>0.59</td><td>0.86</td><td>-0.5</td><td>83</td><td>0.29</td><td>0.66</td><td>-0.74</td><td>0.51</td><td></td><td>-0.10</td><td>-0.62</td><td>-0.99</td><td>0.02</td><td>0.16</td><td>-0.83</td><td>0.27</td><td>-0.41</td></t<> | | | low | -1.00 | -1.0 | 10 | 0.90 | 0.59 | 0.86 | -0.5 | 83 | 0.29 | 0.66 | -0.74 | 0.51 | | -0.10 | -0.62 | -0.99 | 0.02 | 0.16 | -0.83 | 0.27 | -0.41 | |
| Indic <t< td=""><td></td><td>ROS</td><td>medium</td><td>-0.92</td><td>-0.9</td><td>19</td><td>-0.04</td><td>0.07</td><td>0.78</td><td>-0.</td><td>18</td><td>-0.15</td><td>0.55</td><td>-0.32</td><td>-0.27</td><td></td><td>-0.67</td><td>-0.34</td><td>-0.94</td><td>0.16</td><td>-0.97</td><td>-0.51</td><td>0.41</td><td>1.00</td></t<> | | ROS | medium | -0.92 | -0.9 | 19 | -0.04 | 0.07 | 0.78 | -0. | 18 | -0.15 | 0.55 | -0.32 | -0.27 | | -0.67 | -0.34 | -0.94 | 0.16 | -0.97 | -0.51 | 0.41 | 1.00 | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | high | -0.93 | -1.0 | 10 | 0.95 | -0.37 | 0.83 | -0. | 98 | -0.10 | 0.61 | -1.00 | -0.38 | | -0.31 | 0.06 | -0.96 | 0.09 | -0.58 | -0.55 | 0.34 | 0.34 | |
| Anime Median Mode | | | low | 0.92 | -0.8 | 3 | 0.93 | 0.88 | 0.45 | -0.3 | 87 | -0.62 | 0.14 | -0.79 | 0.36 | | 0.81 | 0.63 | 0.89 | 0.57 | 0.08 | 0.97 | 0.76 | -0.34 | |
| Indic 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.90 0.90 0.90 0.90 0.90 0.93 0.93 0.91 0.91 0.90 0.90 0.93 0.93 0.91 0.91 0.90 0.90 0.91 Applie 0.90 0.90 0.90 0.90 0.90 0.93 0.93 0.91 0.91 0.90 0.91 0.93 0.91 0.91 0.90 0.91 Applie 0.90 <th< td=""><td></td><td>Antiox</td><td>medium</td><td>0.33</td><td>0.0</td><td>8</td><td>0.70</td><td>0.74</td><td>-0.56</td><td>0.5</td><td>9</td><td>0.83</td><td>-0.79</td><td>0.47</td><td>0.88</td><td></td><td>-0.16</td><td>-0.28</td><td>0.40</td><td>1.00</td><td>-0.49</td><td>-0.29</td><td>0.94</td><td>0.70</td></th<> | | Antiox | medium | 0.33 | 0.0 | 8 | 0.70 | 0.74 | -0.56 | 0.5 | 9 | 0.83 | -0.79 | 0.47 | 0.88 | | -0.16 | -0.28 | 0.40 | 1.00 | -0.49 | -0.29 | 0.94 | 0.70 | |
| Image: Normal Sector Image: No | | | high | 0.99 | 0.9 | s . | 0.98 | 0.36 | -0.98 | -0.5 | 95 | -0.10 | -0.87 | -0.90 | 0.25 | | -0.22 | -0.33 | 1.00 | 0.31 | -0.11 | 0.70 | 0.06 | -0.16 | |
| GR medium 0.53 -0.50 -0.50 -0.80 -0 | | | low | -0.61 | 0.4 | 9 | 0.35 | -0.16 | 0.00 | 0.2 | 1 | 0.93 | 0.32 | 0.07 | 0.70 | | -0.21 | -0.40 | -0.54 | 0.08 | 0.71 | -0.96 | -0.17 | -0.87 | |
| high -0.46 0.61 -0.71 0.11 -0.14 0.55 0.55 0.65 0.67 0.91 -0.75 0.55 0.65 0.67 0.91 -0.75 0.55 0.65 0.67 0.91 0.93 0.93 0.93 0.95 0.68 0.67 0.91 0.93 0.93 0.95 0.65 0.62 More -0.60 0.65 0.65 0.67 0.67 0.91 0.93 0.93 0.98 0.68 0.67 0.91 0.93 0.93 0.95 0.65 0.62 0.97 0.91 0.91 0.93 0.93 0.98 0.68 0.97 0.91 0.91 0.93 0.93 0.98 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.94 0.94 0.93 0.93 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.94 | | GR | medium | 0.53 | -0.5 | 6 | 0.70 | -0.89 | 0.89 | -0 | 30 | -0.96 | 0.99 | -0.87 | -0.90 | | 0.20 | -0.88 | 0.46 | -0.44 | 0.69 | | -0.65 | -0.47 | |
| Mage Mage <th< td=""><td></td><td> </td><td>high</td><td>-0.46</td><td>0.6</td><td>1</td><td>0.71</td><td>0.11</td><td>-0.14</td><td>-0.1</td><td>30</td><td>0.98</td><td>0.18</td><td>-0.88</td><td>0.90</td><td></td><td>-0.47</td><td>.0.91</td><td>-0.39</td><td>-0.33</td><td>-0.39</td><td>-0.89</td><td>-0.56</td><td>0.62</td></th<> | | | high | -0.46 | 0.6 | 1 | 0.71 | 0.11 | -0.14 | -0.1 | 30 | 0.98 | 0.18 | -0.88 | 0.90 | | -0.47 | .0.91 | -0.39 | -0.33 | -0.39 | -0.89 | -0.56 | 0.62 | |
| SOD medium 0.00 0.64 -0.20 0.74 -0.17 -0.34 -0.87 0.15 -0.47 -0.01 0.16 -0.05 0.57 0.96 0.97 0.04 100 | | <u>├</u> | low | -0.62 | 0.0 | 6 | -0.86 | -0.98 | -0.69 | | 22 | -0.60 | -0.43 | -0.97 | .0.79 | | -0.64 | 0.10 | -0.68 | 0.98 | 0.97 | -0.04 | 1.00 | -1.00 | |
| | | | medium | 0.70 | 0.5 | 4 | 0.20 | 0.74 | -0.17 | -0. | 24 | .0.87 | 0.15 | -0.47 | -0.01 | | 0.56 | 0.25 | 0.65 | 0.57 | 0.96 | 0.99 | 0.34 | 1.00 | |
| | | | meonali | 0.00 | 0.0 | | 0.20 | | -0.17 | -0. | | | 0.10 | -0.47 | -0.01 | _ | 0.00 | 0.40 | 0.05 | 0.01 | | | 0.34 | | |