**Response to Reviewer comments**

Reviewer A:

Does the manuscript contain enough significant original material?:
        yes

Is the manuscript clearly and concisely written?:
        yes

Are the conclusions adequately supported by the data?:
        yes

Does the manuscript give appropriate credit to related recent publications?:

        yes

Are the references appropriate and free of important omissions?:
        yes

Is the length of the manuscript appropriate?:
        yes

Does the manuscript need condensation or extension?:
        no

Is the quality of the figures (including legends and axes labelling)
satisfactory?:
        no

Are the nomenclature and units in accordance with SI?:
        yes

Are the English grammar and syntax satisfactory?:
        yes

ADDITIONAL COMMENTS
Please indicate the page numbers for suggested corrections.
Please, be as specific as possible if major correction by the author(s) is
recommended! :
        1.      The authors should examine the solubility of the complexes in solvents.
Please, present that in Experimental part of the manuscript after describing
the synthesis of complexes.

**Ans:**

**The solubility of the synthesized complexes was determined in different solvents. The complexes are soluble in methanol, ethanol, chloroform, acetone, dimethyl sulfoxide (DMSO), partially soluble in ether and in pure water**. **These changes have been highlighted and given on page number 3.**
2.      The authors should investigate the stability of the complexes in aqueous
DMSO (1:4) over time (by UV/Vis spectroscopy)

**Ans:**

**The stability of the complexes in aqueous DMSO was investigated through UV/Vis spectroscopy by preparing their solution in aqueous DMSO (1:4) and scans that solution in 200-1100 nm range for 24 hour. These changes have been highlighted and given on page number 9.**

3.      Please enclose the IR spectra of complexes in the Supplementary material

 **Ans:**

**The IR spectra of complexes are enclosed in the Supplementary material**

4.      “Thermogravimetric analysis” subsection (in Results and discussion)
should be moved in front of the “Absorption spectroscopy” subsection.

**Ans:**

**The “Thermogravimetric analysis” subsection (in Results and discussion)
has been moved in front of the “Absorption spectroscopy” subsection, which is highlighted and given on page number 7.**

5.      Conclusion: The authors should give the short conclusion of the binding
activity of the complexes with DNA. It was only mentioned that the activity
was determined (line 319-320)

**Ans:**

**A short conclusion about the binding activity of both complexes with DNA was given, which is highlighted and given on page number 11.**

6.      Please, improve the Scheme 1. The structures of compounds in the reaction
should be in the same line (E.g. “NaHCO3” and “+” are not in the
same line with the structure of 2-bromphenyl acetic acid (this was only
example). Additionally, it should be presented the structure of complex 2
(not just a general formula).

**Ans**:

**The scheme 1 was improved by writing the chemical reaction in the same line. Also the structure of complex 2 was given. These changes are highlighted in the schemes for the synthesis of complexes.**

Other comments:
Line 33: “an” in front of “important”…”a” in front of
“catalyst”
Line 37: “an” in front of “important”

**These changes are highlighted and given on page number 1.**
Line 46: ”a” in front of “reducing agent”
Lines 51-55: The sentence is too long. Please rephrase sentence or split it
in two.
Line 55: “The” instead “the”
Line 56: “like” is unnecessary in the sentence
Lines 58-60: Please rephrase the sentence
Line 61: There is space between “copper” and “,”
Line 65: “copper(II) complexes” instead “copper complexes”

**These changes are highlighted and given on page number 2.**
Line 197: “showing” instead “sowing”
Line 210: “copper(II) ion” instead “copper (II) ion)

**These changes are highlighted and given on page number 7.**
Line 226: Please delete “shift” in the bracket
Line 237: “Both” instead “both”
Line 241: “complex 1” instead “copper 1 complex”…”gives” or
“gave” instead “give”

**These changes are highlighted and given on page number 8.**
Line 251: “the” in front of “Benesi-Hildebrand”
Line 259: “complexes” instead “ligand”
Line 265: “As it can be seen” instead “It is clear from this figure”
Line 276: Please check the sentence that started in this line

**These changes are highlighted and given on page number 9.**
Line 305: “decomposition step. The complex…” instead “decomposition
step, the complex…”

**These changes are highlighted and given on page number 7.**
References: According to the instructions of the Journal of the Serbian
Chemical Society, the abbreviations of journals should be Italic
Line 336: “Inorg.” instead “Inorg..”
Linea 335 and 357: Without the full stop after “Polyhedron”
Line 361: Without the comma after “Metallomics”
Line 374: Without the full stop after “Dalton”

**These changes are highlighted and given on page number 12.**
Line 387: Without the full stop after “Acta”

**The change is highlighted and given on page number 13.**

In my opinion, this manuscript should:
        be published after major revision and additional review

If manuscript is suitable for publishing, referees recommendation :

Reviewer B:

Does the manuscript contain enough significant original material?:
        yes

Is the manuscript clearly and concisely written?:
        yes

Are the conclusions adequately supported by the data?:
        yes

Does the manuscript give appropriate credit to related recent publications?:

        yes

Are the references appropriate and free of important omissions?:
        no

Is the length of the manuscript appropriate?:
        yes

Does the manuscript need condensation or extension?:
        no

Is the quality of the figures (including legends and axes labelling)
satisfactory?:
        yes

Are the nomenclature and units in accordance with SI?:
        yes

Are the English grammar and syntax satisfactory?:
        no

ADDITIONAL COMMENTS
Please indicate the page numbers for suggested corrections.
Please, be as specific as possible if major correction by the author(s) is
recommended! :
        /

REPORT:
        The manuscript 8467-47256-2-RV reports the synthesis and characterization
of two binuclear copper complexes with  2-bromophenyl acetate ligand as well
as the experimental and computational study of their interaction with DNA.

In my opinion the manuscript could be suitable for publication in Journal of
the Serbian Chemical Society after some minor corrections:

Crystal structures should be deposited at the Cambridge Crystallographic
Data Centre (CCDC) and the CCDC Deposition Number should be cited in the
manuscript
Use chemical formulas instead of full names for common inorganic compounds

**The chemical formula of common inorganic compounds are used, highlighted, and given on page number 3.**
Replace Cu-Cu with Cu...Cu

**The change is made and highlighted on page number 4.**
Replace C2/C with C2/c

**The change is made and highlighted on page number 5.**
Please clarify:
193 “The greater separation in bond length of the two copper is due
to...” (the greater separation in comparison to what?; Is there an actual
bond between the two copper atoms?)

**The reason for the greater separation in bond length of the two copper is explained, highlighted and given on page number 6.**
151, 190 Unit (for bond length or angle) is missing

**Units for bond lengths and angles are written and highlighted on page number 4.**
Reference 23 is missing from the Reference list

**Reference 23 is incorporated, highlighted, and given on page number 12.**

Grammar should be checked on several places, some of them are:
51 “Bromophenyl acetate is the derivatives”
60  “The presence of aromatic planar heterocyclic ring in phenanthroline
and their...”

**The changes are made, highlighted, and given on page number 2.**
159 “The  packing  diagram  for  the  complex  has  been  shown  in  Fig.
2  which  shows...”

**The changes are made, highlighted, and given on page number 5.**
197 “The  supramolecular  structure  of  the  complex  2  has  been  shown
 in  Fig.  4  sowing...“

**The changes are made, highlighted, and given on page number 7.**
244 “The broad peaks in the 500 nm range is due...”

**The changes are made, highlighted, and given on page number 8.**
269 Punctuation mark (.) confuses the mining of the sentence

**The changes are made, highlighted, and given on page number 9.**
276 Reconsider the term: “Metals intercalator complexes”

**The changes are made, highlighted, and given on page number 10.**

In my opinion, this manuscript should:
        be published after minor revision without additional review

If manuscript is suitable for publishing, referees recommendation :
        Original scientific paper

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Journal of the Serbian Chemical Society
<http://www.shd-pub.org.rs/index.php/JSCS>

**Thank you very much for the valuable suggestions for the improvement of the manuscript.**